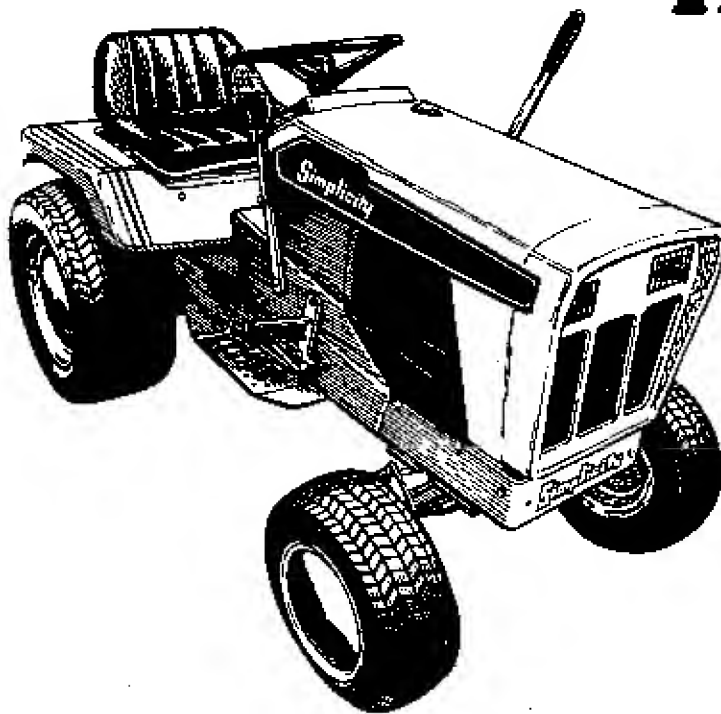


# **Parts Manual**

## **Models 7012, 16 & 18 Hydrostatic**



12 H.P. TRACTOR  
MFG. NO. 1690352  
16 H.P. TRACTOR  
MFG. NO. 1690342  
16 H.P. TRACTOR  
W/TURF TIRES  
MFG. NO. 1690427  
16 H.P. TRACTOR  
W/AGRICULTURAL TIRES  
MFG. NO. 1690429  
18 H.P. TRACTOR  
MFG. NO. 1690366  
18 H.P. TRACTOR  
W/TURF TIRES  
MFG. NO. 1690431  
18 H.P. TRACTOR  
W/AGRICULTURAL TIRES  
MFG. NO. 1690433  
AGRICULTURAL TIRES  
MFG. NO. 1690304  
TURF TIRES  
MFG. NO. 1690319  
42" ROTARY MOWER  
MFG. NO. 1690271  
48" ROTARY MOWER  
MFG. NO. 1690272

TP - 493-3  
PRINTED IN U.S.A.  
796

# **Simplicity**

AN ALLIS-CHALMERS COMPANY

#### Attention Dealers:

For quick, accurate reference when making warranty claims, group numbers are given with each parts section. Also note that serial numbers of units are listed to locate any difference in parts which may occur in later models. Be aware of these unit serial numbers when ordering parts.

Standard torques appear in a chart at the end of the manual, while important individual torques are given on specific parts drawings. These provide easy reference notes for repair and troubleshooting.

CRITICAL and MAJOR notations point out important facts or instructions which relate to safety or reliability and machine quality. The CRITICAL notation **[C]** pinpoints characteristics which, if not properly followed, can create a safety hazard. The MAJOR notation **[M]** marks characteristics which, if not properly followed, may result in operating failure, shortened product life, or greatly reduced quality of the unit.

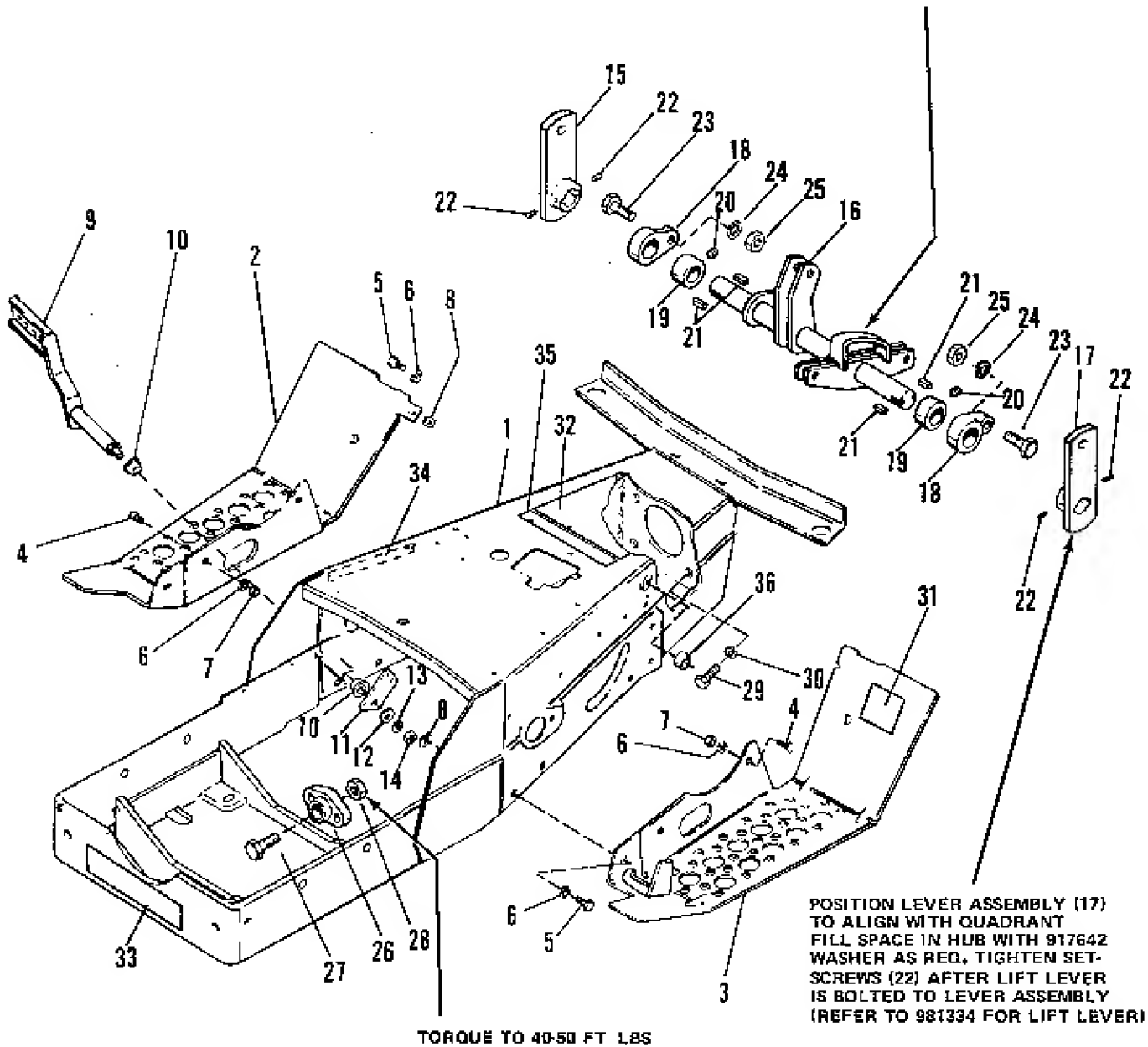
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Technical Publications

NOTE: SPECIFICATIONS MAY CHANGE WITHOUT NOTICE.

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STANDARD HARDWARE TORQUE SPECIFICATIONS .....	Inside Back Cover

POSITION SHAFT ASSEMBLY 168316B BY ALIGNING LEVER ARM WITH CENTER OF LIFT CABLE PULLEY BRACKET ON LEFT HAND SIDE OF FRAME. SECURE SHAFT ASSEMBLY IN PLACE WITH SET COLLARS 157824 AND SETSCREWS 828709.

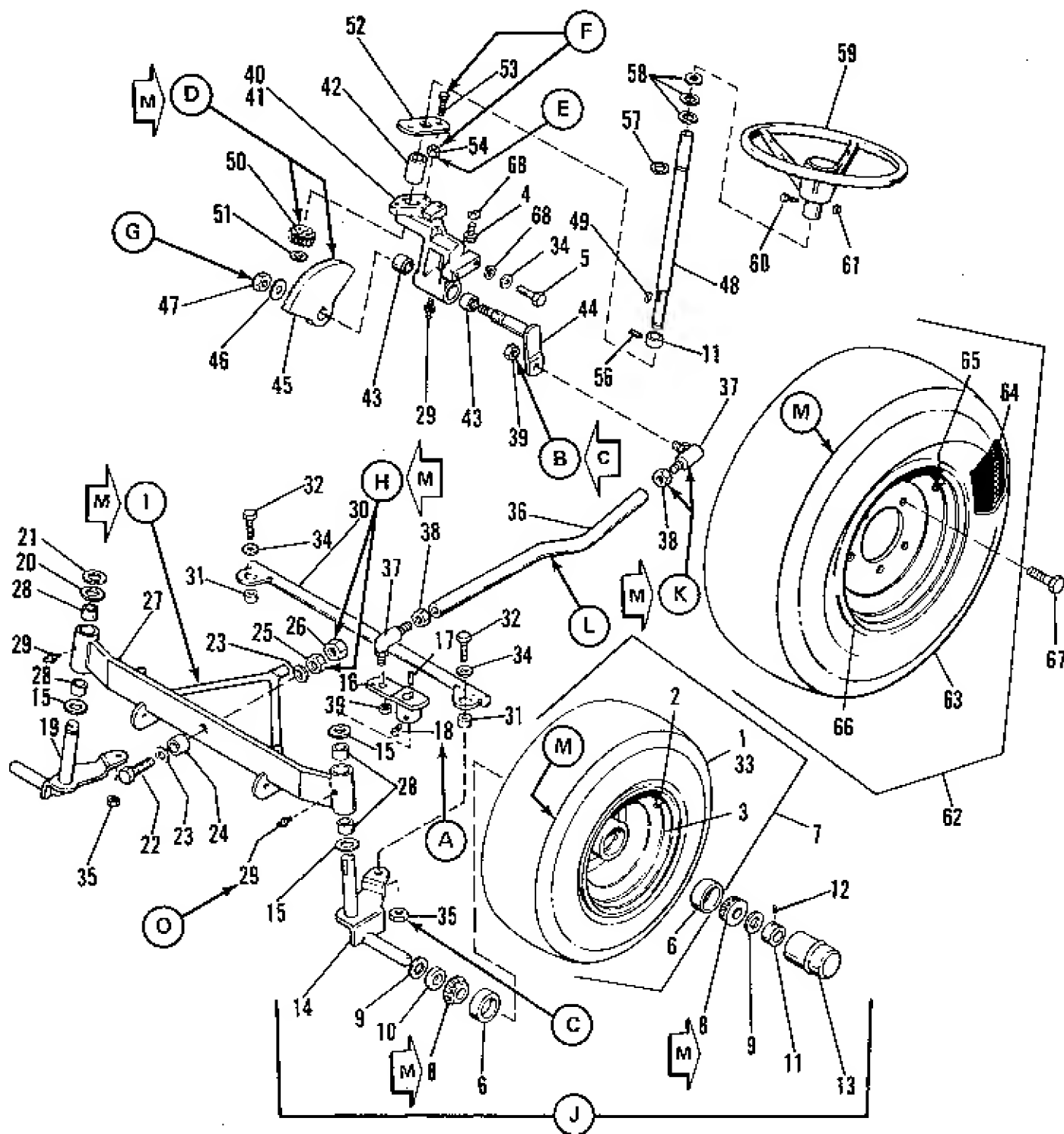


TORQUE TO 40-50 FT LBS

USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209  
UNLESS OTHERWISE NOTED.

POSITION LEVER ASSEMBLY (17)  
TO ALIGN WITH QUADRANT  
FILL SPACE IN HUB WITH 917642  
WASHER AS REQ. TIGHTEN SET-  
SCREWS (22) AFTER LIFT LEVER  
IS BOLTED TO LEVER ASSEMBLY  
(REFER TO 981334 FOR LIFT LEVER)

Ref. No.	Part No.	Qty.	Serial No.	Description
1	1665256	1	(00000)-( )	REAR FRAME ASSEMBLY
2	171271	1	(00000)-( )	FOOT REST, R.H.
3	176628	1	(00000)-( )	FOOT REST, L.H.
4	920562	6	(00000)-( )	BOLT, Carriage, 5/16-18 x 3/4
5	921332	2	(00000)-( )	CAPSCREW, Hex Hd., 5/16-18 x 3/4
6	917356	8	(00000)-( )	LOCKWASHER, 5/16
7	917372	6	(00000)-( )	NUT, Hex, Full, 5/16-18
8	920470	2	(00000)-( )	NUT, Speed, Tinn., 5/16-18
9	1657472	1	(00000)-( )	FOOT PEDAL ASSEMBLY
10	108419	2	(00000)-( )	BUSHING
11	157300	1	(00000)-( )	ARM, Pedal Foot
12	917378	1	(00000)-( )	WASHER, 3/8
13	916965	1	(00000)-( )	LOCKWASHER, 3/8
14	916950	1	(00000)-( )	NUT, Hex, Full, 3/8-16
15	157625	1	(00000)-( )	FRONT LIFT LEVER ASSEMBLY
16	1663168	1	(00000)-( )	LIFT SHAFT ASSEMBLY
17	171593	1	(00000)-( )	LIFT LEVER ASSEMBLY
18	170975	2	(00000)-( )	BEARING, Lift Lever
19	157624	2	(00000)-( )	SET, Collar
20	928709	2	(00000)-( )	SETSCREW, Cup Pt., 5/16-18 x 3/8
21	157652	4	(00000)-( )	KEY
22	928734	4	(00000)-( )	SETSCREW, Soc. Hd., 5/16-18 x 1/4
23	921977	2	(00000)-( )	CAPSCREW, Hex Hd., 5/16-18 x 1-1/4
24	917356	2	(00000)-( )	LOCKWASHER, 5/16
25	917372	2	(00000)-( )	NUT, Hex, Full, 5/16-18
26	1653876	1	(00000)-( )	BEARING, Pivot
27	928727	2	(00000)-( )	CAPSCREW, Whiz, 3/8-16 x 1-1/4
28	928352	2	(00000)-( )	NUT, Flange, 3/8-16
29	921212	4	(00000)-( )	CAPSCREW, Hex Hd., 7/16-14 x 1-1/2
30	918199	4	(00000)-( )	LOCKWASHER, 7/16
31	1655727	1	(00000)-( )	DECAL, Parking Brake
32	176823	1	(00000)-( )	PLATE, Safety
33	153166	1	(00000)-( )	DECAL, Simplicity
34	174954	1	(00000)-( )	DECAL, Clutch
35	1652577	1	(00000)-( )	DECAL, Warning
36	174662	1	(00000)-( )	BUSHING



NOTE: USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209 UNLESS  
OTHERWISE NOTED.

## Wheel, Axle &amp; Steering (7012, 7016 &amp; 7018)

**Simplicity**

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Ref. No.	Part No.	Qty.	Serial No.	Description
1	164247	2	(00000)-( )	TUBE
2	156305	2	(00000)-( )	VALVE STEM & CAP
3	171377	2	(00000)-( )	WHEEL ASSY
4	921965	1	(00000)-( )	CAPSCREW, Hex, 3/8-16 x 3/4
5	921966	2	(00000)-( )	CAPSCREW, Hex, 3/8-16 x 7/8
6	154393	4	(00000)-( )	CUP, Bearing
7	171376	2	(00000)-( )	WHEEL & TIRE ASSY
8	154486	4	(00000)-( )	CONE, Bearing
9	171375	4	(00000)-( )	SPACER
10	170168	2	(00000)-( )	SEAL
11	8021010	3	(00000)-( )	COLLAR, Set
12	928691	2	(00000)-( )	SETSCREW, Sq. Hd., Cup Pt., 5/16-18 x 5/16
13	154487	2	(00000)-( )	CAP, Hub
14	171774	1	(00000)-( )	SPINDLE ASSY, L.H.
15	108181	3	(00000)-( )	WASHER
16	170998	1	(00000)-( )	ARM, Steering, L.H.
17	157427	2	(00000)-( )	KEY, Square
18	928721	2	(00000)-( )	SETSCREW, 5/16-18 x 1/2
19	157494	1	(00000)-( )	SPINDLE ASSY, R.H.
20	8061012	1	(00000)-( )	WASHER
21	927794	1	(00000)-( )	"E" RING, External
22	927469	1	(00000)-( )	CAPSCREW, Hex Hd., 1/2-13 x 2-1/4
23	918431	2	(00000)-( )	WASHER, Plain, 1/2
24	157618	1	(00000)-( )	SPACER
25	930648	1	(00000)-( )	LOCKNUT, Hex, 1/2-13
26	913744	1	(00000)-( )	NUT, Jam Hex, 1/2-13
27	1650553	1	(00000)-( )	FRONT AXLE ASSY
28	154289	4	(00000)-( )	BUSHING
29	914687	3	(00000)-( )	FITTING, Grease
30	157499	1	(00000)-( )	TIE ROD ASSY
31	154177	2	(00000)-( )	SPACER
32	921210	2	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
33	157490	2	(00000)-( )	TIRE, 16 x 6.50-8, Goodyear
	1605965	2	(00000)-( )	TIRE, 16 x 6.50-8, Carlisle
34	917378	4	(00000)-( )	WASHER, Plain, 3/8
35	930651	2	(00000)-( )	LOCKNUT, Hex, 3/8-16
36	171830	1	(00000)-( )	LINK, Drag
37	164272	2	(00000)-( )	JOINT, Ball
38	919262	2	(00000)-( )	NUT, Jam Hex, 1/2-20
39	930245	2	(00000)-( )	LOCKNUT, Hex, 1/2-20
40	171832	1	(00000)-( )	STEERING HOUSING ASSEMBLY
41	170960	1	(00000)-( )	HOUSING, Steering
42	170992	1	(00000)-( )	BUSHING
43	154258	2	(00000)-( )	BEARING, Needle
44	170999	1	(00000)-( )	STEERING ARM ASSEMBLY, (Includes Ref. Nos. 41, 42, 43)
45	170987	1	(00000)-( )	GEAR, Bevel
46	918430	1	(00000)-( )	WASHER, Plain, 7/16
47	924058	1	(00000)-( )	LOCKNUT, Hex, 7/16-14
48	171020	1	(00000)-( )	SHAFT, Steering
49	910224	1	(00000)-( )	KEY, Woodruff, No. 6, 5/32 x 5/8
50	170988	1	(00000)-( )	PINION, Bevel

NOTE: PARTS REF. NO. 51 - 68 CONTINUED ON FOLLOWING PAGE.

NOTE: FOR SERVICE OF REAR TIRES ON 16 HP &amp; 18 HP TRACTORS SEE PAGES 52-53



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Ref. No.	Part No.	Qty.	Serial No.	Description
51	1602155	1	{00000}-{ }	"E" RING
52	171000	1	{00000}-{ }	PLATE, Steering
53	920415	2	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
54	929731	2	{00000}-{ }	LOCKNUT, 3/8-16
56	929734	1	{00000}-{ }	SETSCREW, Sq. Hd., 5/16-18 x 1/4
57	154264	1	{00000}-{ }	RING, Retaining
58	158223	3	{00000}-{ }	WASHER
59	1606342	1	{00000}-{ }	WHEEL, Steering
60	921977	1	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 1-1/4
61	929001	1	{00000}-{ }	LOCKNUT, Flange, 5/16-18
62	173431	2	{00000}-{ }	WHEEL & TIRE ASSEMBLY (7012 Only)
	173432	2	{00000}-{ }	WHEEL & TIRE ASSY, Turf (1690427 & 1690431 Only)
	1657752	1	{00000}-{ }	WHEEL & TIRE ASSY, R.H. Ag. (1690429 & 1690433 Only)
	1657753	1	{00000}-{ }	WHEEL & TIRE ASSY, L.H. Ag. (1690429 & 1690433 Only)
63	157024	2	{00000}-{ }	TIRE, 23-8.50 x 12, Goodyear Turf (7012 Only)
	1605968	2	{00000}-{ }	TIRE, 23-8.50 x 12, Carlisle Turf (7012 Only)
	1605967	2	{00000}-{ }	TIRE, 23 x 10.50-12, Carlisle Turf (1690427 & 1690431 Only)
	1664215	2	{00000}-{ }	TIRE, 23 x 10.50-12, Firestone Turf (1690427 & 1690431 Only)
	1657694	2	{00000}-{ }	TIRE, 23 x 10.50-12, Goodyear Ag. (1690429 & 1690433 Only)
64	157602	2	{00000}-{ }	TUBE (7012 Only)
	157638	2	{00000}-{ }	TUBE (7016 Only)
65	172353	2	{00000}-{ }	STEM & VALVE CAP (7012 Only)
66	173430	2	{00000}-{ }	WHEEL, Drive (7012 Only)
67	8261100	10	{00000}-{ }	BOLT, Hub
68	916965	3	{00000}-{ }	LOCKWASHER, 3/8



NOTE: PARTS REF. NO. 1-50 FOUND ON PRECEDING PAGE.

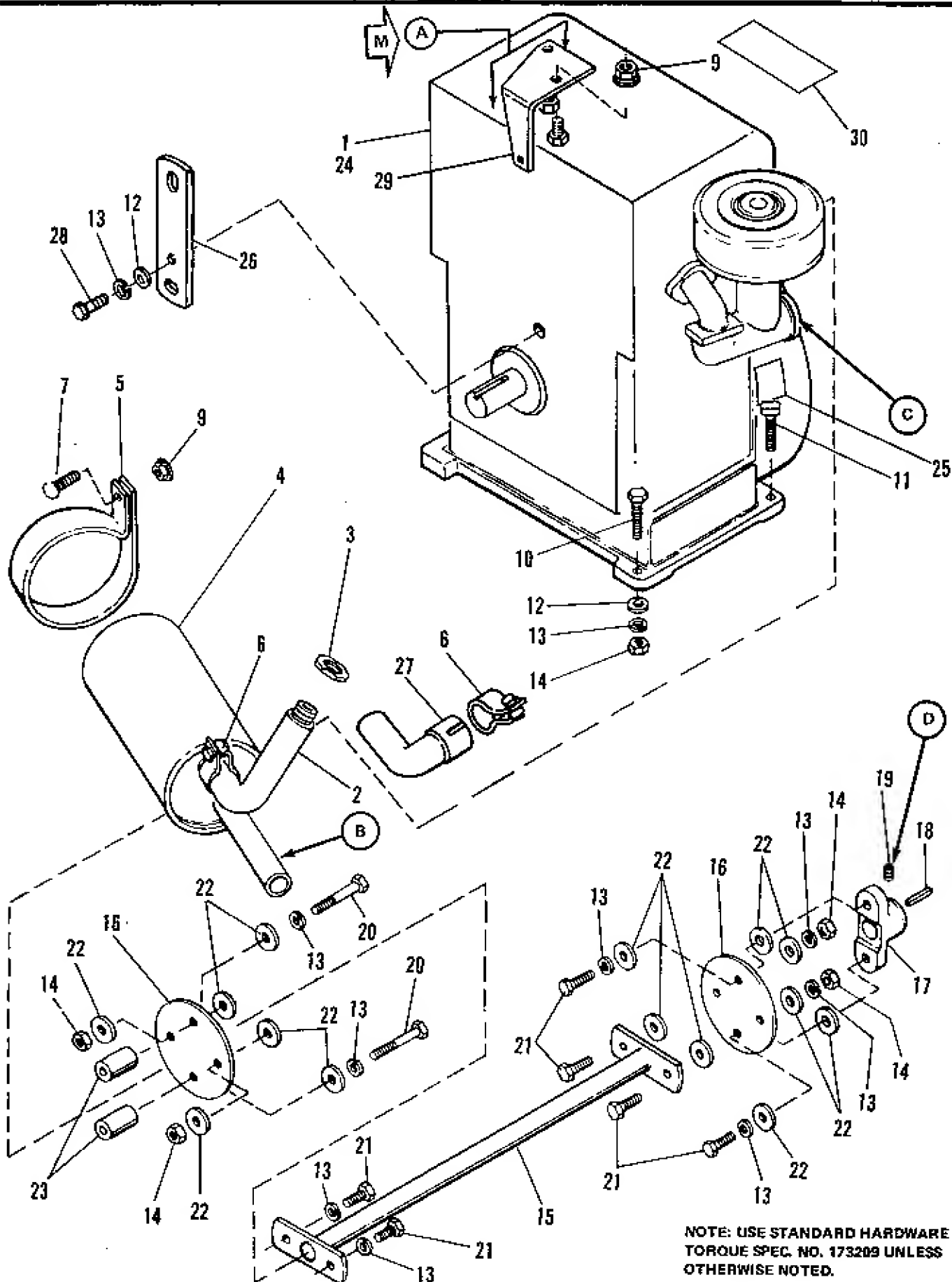
NOTE: FOR SERVICE OF REAR TIRES ON 16 HP &amp; 18 HP TRACTORS SEE PAGES 52-53.



## WHEEL, AXLE & STEERING GROUP

- A. Torque to 13 Ft. Lbs. Min. (2 Places).
- B. 930245 Nut – Torque to 40-60 Ft. Lbs. (2 Places). 
- C. Torque to 15-22 Ft. Lbs. (2 Places).
- D. Timing marks on pinion 170988 and gear 170987 must be in line. Do not brush grease on tooth surfaces of gear and pinion. 
- E. Torque 16-21 Ft. Lbs.
- F. Remove backlash in assembly by turning capscrew 917400 until backlash is set and lock by tightening locknut 928731 against plate 171000.
- G. Torque 25-33 Ft. Lbs.
- H. Torque nut 930648 to 80-100 Ft. Lbs. Lock nut in place after torquing by holding nut 930648 and tightening jam nut 913744 to 45-55 Ft. Lbs. 
- I. Axle assembly 1650553 must pivot freely after assembly. 
- J. Assemble items on front spindle in order listed.
  - a. 171375 spacer
  - b. 170168 seal
  - c. 154486 bearing
  - d. Wheel & Tire Assembly
  - e. 154486 bearing
  - f. 171375 spacer
  - g. 8021010 Collar & 928641 setscrew – Torque setscrews to 9-10 Ft. Lbs. Min. 
  - h. 154487 hub cap

Apply lithium grease to bearings 154486 at time of assembly. After assembly is complete, bearings must rotate freely without end play. 
- K. Hold ball joints when tightening jam nuts (2 Places). 
- L. NOTE: Adjust length of drag link assembly 171830 by positioning end ball joints so that front wheels will be in the straight ahead position when the steering gear arm is positioned at approx. 19° as shown. The steering wheel mounting hole  $\phi$  is to be parallel to fore and aft  $\phi$  of tractor.
- M. NOTE: Tire pressure as received from vendor = 20 PSI Min. at time of assembly.
- N. Use standard hardware torque Spec. No. 173209 unless otherwise noted.
- O. Apply grease to spindle bearings (2 Places).



NOTE: USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209 UNLESS  
OTHERWISE NOTED.

Ref. No.	Part No.	Qty.	Serial No.	Description
1		1	{00000}-{ }	ENGINE, 12 H.P., Kohler (7012 Only)
2	1656492	1	{00000}-{ }	ELBOW & NIPPLE ASSY (7016 Only)
3	154378	1	{00000}-{ }	LOCKNUT
4	170486	1	{00000}-{ }	MUFFLER
5	171880	1	{00000}-{ }	STRAP, Muffler
6	172061	2	{00000}-{ }	CLAMP, Muffler (Quan. 1 used on 7016 )
7	933689	1	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 1-1/2
8	157096	1	{00000}-{ }	DECAL, Caution
9	927557	3	{00000}-{ }	LOCKNUT, Flange, Whizlock, 5/16-18 (Quan. 1 used on 7012)
10	921969	4	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 1-1/2 (Quan. 2 used on 7016)
11	172455	2	{00000}-{ }	CAPSCREW, Rect. Hd., 3/8-16 x 1-5/8 (7016 Only)
12	917378	5	{00000}-{ }	WASHER, 3/8 (Quan. 4 used on 7016)
13	916965	13	{00000}-{ }	LOCKWASHER, 3/8 (Quan. 12 used on 7016 )
14	916950	8	{00000}-{ }	NUT, Hex, 3/8-16
15	172328	1	{00000}-{ }	DRIVE SHAFT ASSY
16	173026	2	{00000}-{ }	COUPLING
17	172264	1	{00000}-{ }	FLANGE, Drive Shaft
18	157427	1	{00000}-{ }	KEY, Drive Shaft
19	924624	1	{00000}-{ }	SETSCREW, 3/8-24 x 3/8
20	922130	2	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 2-1/4
21	920415	6	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
22	157424	16	{00000}-{ }	WASHER, Special
23	1656397	2	{00000}-{ }	SPACER
24		1	{00000}-{ }	ENGINE, 16 H.P., Briggs & Stratton (7016 Only)
25	172707	1	{00000}-{ }	DECAL, Oil Level Instructions (7016 Only)
26	1657043	1	{00000}-{ }	BRACKET (7012 Only)
27	1651474	1	{00000}-{ }	ELBOW (7012 Only)
28	921966	1	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 7/8 (7012 Only)
29	1663308	1	{00000}-{ }	SUPPORT, Muffler (7016 Only)

A. Remove two hex nuts and lockwashers, attach bracket No. 1663308 and torque nuts to 150 In. Lbs. (7016 Only)

B. When muffler is assembled onto engine, exhaust pipe must line up with hole in side of hood.

C. Choke button to be pushed in on dash and choke lever on carburetor to be in open position before tightening clamp bolt.

D. Tighten setcrew after drive shaft assembly has been secured to engine flywheel adaptor.

Use standard hardware torque Spec. No. 173209 unless otherwise noted.

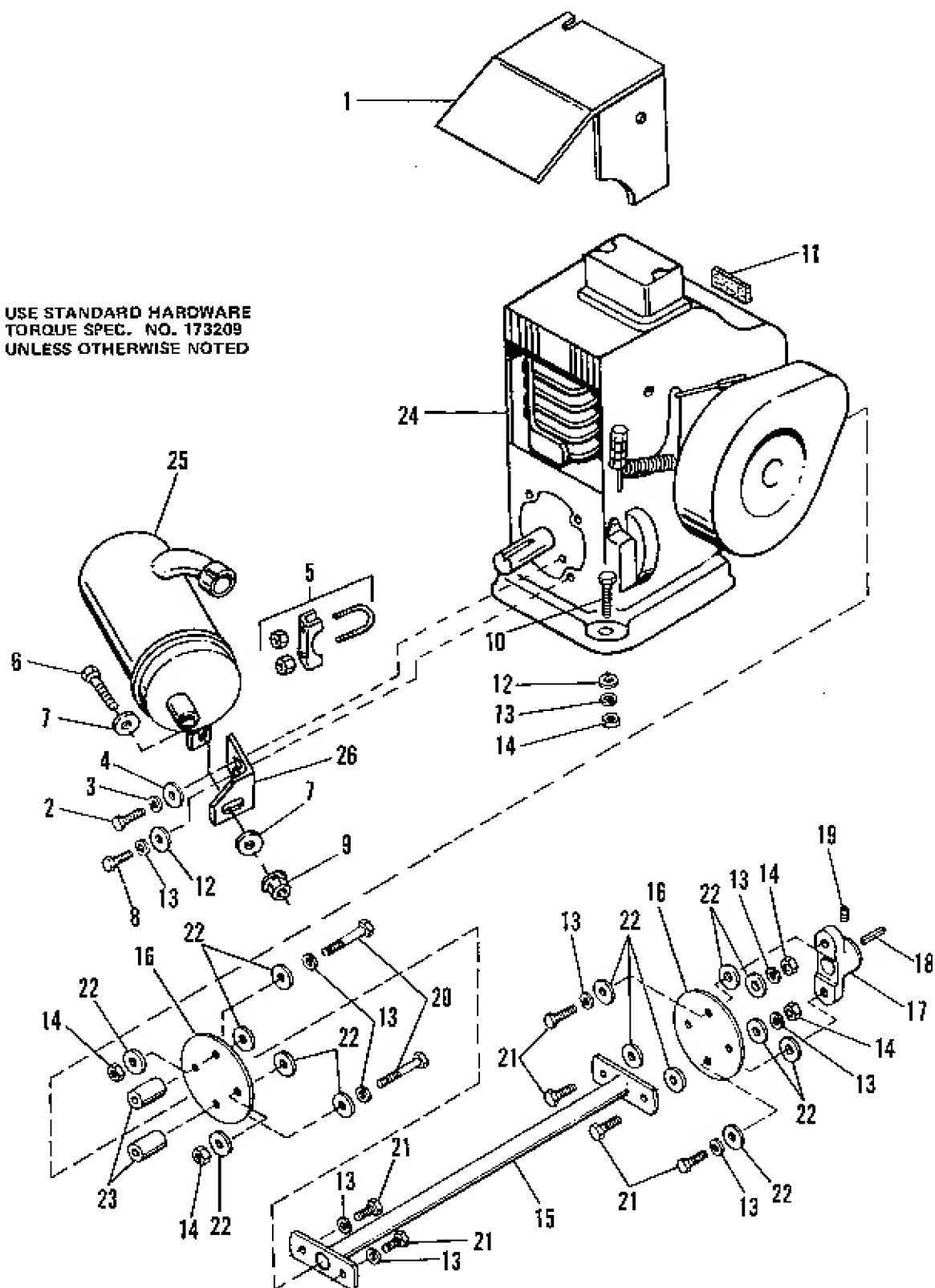
#### THROTTLE ADJUSTMENT (7016)

1. Place throttle lever on dash in full throttle position—up and forward against stop.
2. Install end of throttle control cable wire into engine throttle control rod.
3. Raise engine throttle rod until lower adjusting nut is against stop.
4. Hold lower adjusting nut up against stop and secure cable clamp.
5. Move throttle control lever through full range and back to full throttle position to check adjustment.

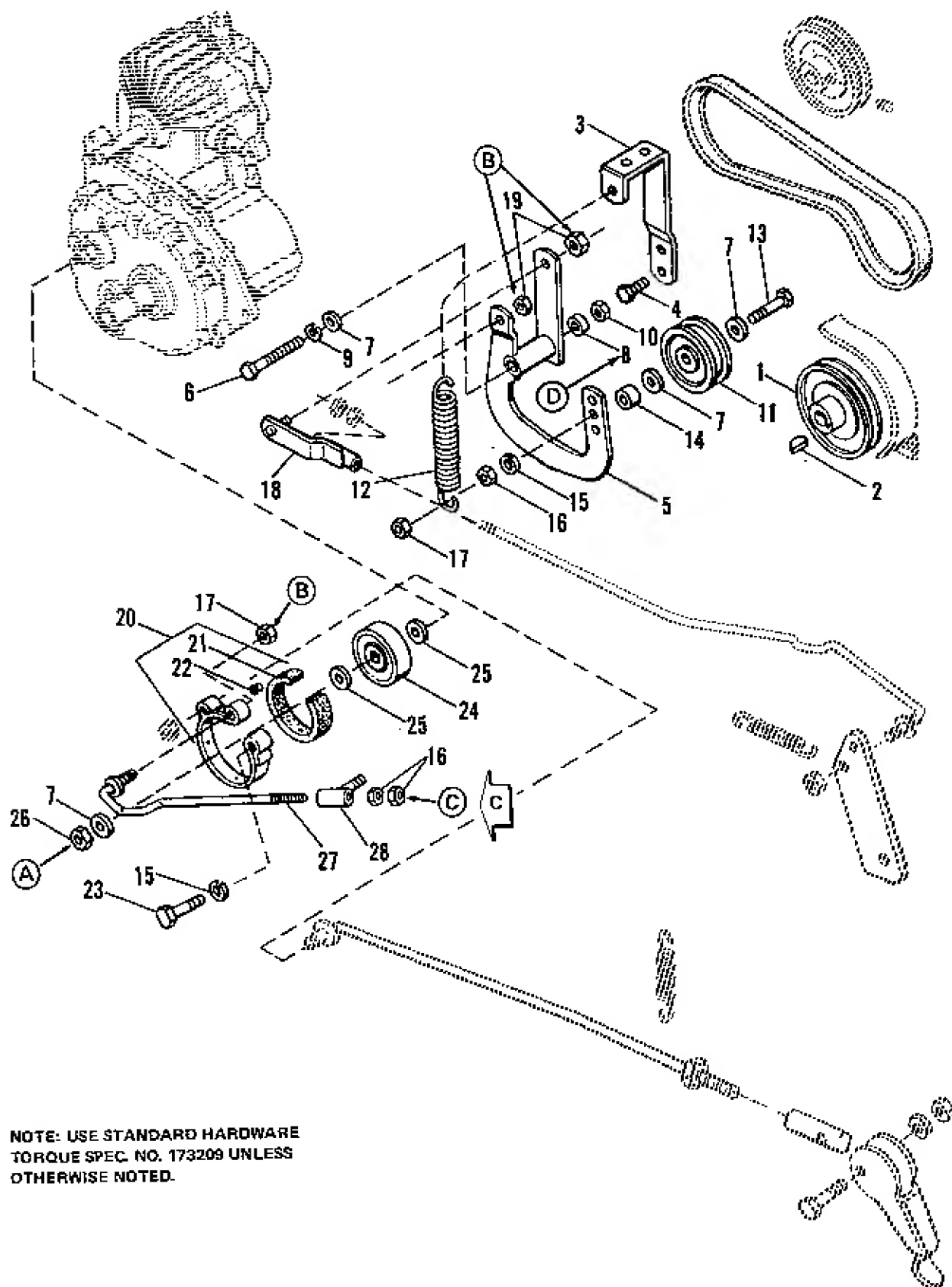
#### THROTTLE ADJUSTMENT (7012)

1. Insert throttle cable wire into speed control bracket on engine.
2. With throttle control in full throttle position (lever up and forward against stop), and engine speed control bracket rotated towards the rear against the high speed stop, secure throttle cable in place with engine throttle cable clamp.
3. Move throttle control lever through full range and back to full throttle position to check adjustment.

USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209  
UNLESS OTHERWISE NOTED



Ref. No.	Part No.	Qty.	Serial No.	Description
1	1664427	1	(00000)-( )	DEFLECTOR ASSY
2	919321	1	(00000)-( )	CAPSCREW, Hex Hd., 7/16-14 x 3/4
3	918199	1	(00000)-( )	LOCKWASHER, 7/16
4	918430	1	(00000)-( )	WASHER, Plain, 7/16
5	4251726	1	(00000)-( )	CLAMP, Exhaust
6	921333	1	(00000)-( )	CAPSCREW, Hex Hd., 5/16-18 x 1
7	917642	2	(00000)-( )	WASHER, Plain 5/16
8	921965	1	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 3/4
9	927557	1	(00000)-( )	LOCKNUT, Flange, Whizlock, 5/16-18
10	921969	4	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1-1/2
11	106582	1	(00000)-( )	PAD, Felt
12	917378	5	(00000)-( )	WASHER, Plain, 3/8
13	916965	13	(00000)-( )	LOCKWASHER, 3/8
14	916950	8	(00000)-( )	NUT, Hex, 3/8-16
15	172328	1	(00000)-( )	SHAFT ASSY, Drive
16	173026	2	(00000)-( )	COUPLING
17	172264	1	(00000)-( )	FLANGE, Drive
18	157427	1	(00000)-( )	KEY, Driveshaft
19	924824	1	(00000)-( )	SETSCREW, 3/8-24 x 3/8
20	922130	2	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 2-1/4
21	920415	6	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
22	157424	16	(00000)-( )	WASHER, Special
23	1656397	2	(00000)-( )	SPACER
24		1	(00000)-( )	ENGINE, 18 h.p., Kohler
25	1664347	1	(00000)-( )	MUFFLER, Exhaust
26	1664654	1	(00000)-( )	BRACKET, Muffler



NOTE: USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209 UNLESS  
OTHERWISE NOTED.

## Clutch &amp; Brake Group (7012, 7016 &amp; 7018)


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Ref. No.	Part No.	Qty.	Serial No.	Description
1	1657323	1	{00000}-{ }	PULLEY
2	905123	1	{00000}-{ }	KEY
3	166166	1	{00000}-{ }	BRACKET
4	926035	2	{00000}-{ }	SCREW, Thd. Form., 3/8 x 3/4
5	166126	1	{00000}-{ }	LEVER ASSY, Idler
6	928295	1	{00000}-{ }	CAPSCREW, Hex Hd., 7/16-14 x 3-3/4
7	917378	4	{00000}-{ }	WASHER, 3/8 Std.
8	166130	1	{00000}-{ }	SPACER
9	918199	1	{00000}-{ }	LOCKWASHER, 7/16
10	918213	1	{00000}-{ }	NUT, Hex, Full, 7/16-14
11	164268	1	{00000}-{ }	PULLEY, Idler
12	154369	1	{00000}-{ }	SPRING
13	921972	1	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 2 1/2
14	157081	1	{00000}-{ }	SPACER
15	916985	2	{00000}-{ }	LOCKWASHER, 3/8
16	916950	3	{00000}-{ }	NUT, Hex, Full, 3/8-16
17	930651	2	{00000}-{ }	NUT, Lock, Hex, 3/8-16
18	166157	1	{00000}-{ }	GUIDE ASSY
19	923362	2	{00000}-{ }	NUT, Lock, Hex, 5/16-18
20	172234	1	{00000}-{ }	BAND ASSY, Brake
21	172237	1	{00000}-{ }	LINING, Brake
22	926021	5	{00000}-{ }	RIVET
23	921971	1	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4
24	166176	1	{00000}-{ }	DRUM, Brake
25	158196	2	{00000}-{ }	WASHER, Special
26	924058	1	{00000}-{ }	NUT, Lock, Hex, 7/16-14
27	1650651	1	{00000}-{ }	ROD, Brake
28	166119	1	{00000}-{ }	GUIDE ASSY, Rod

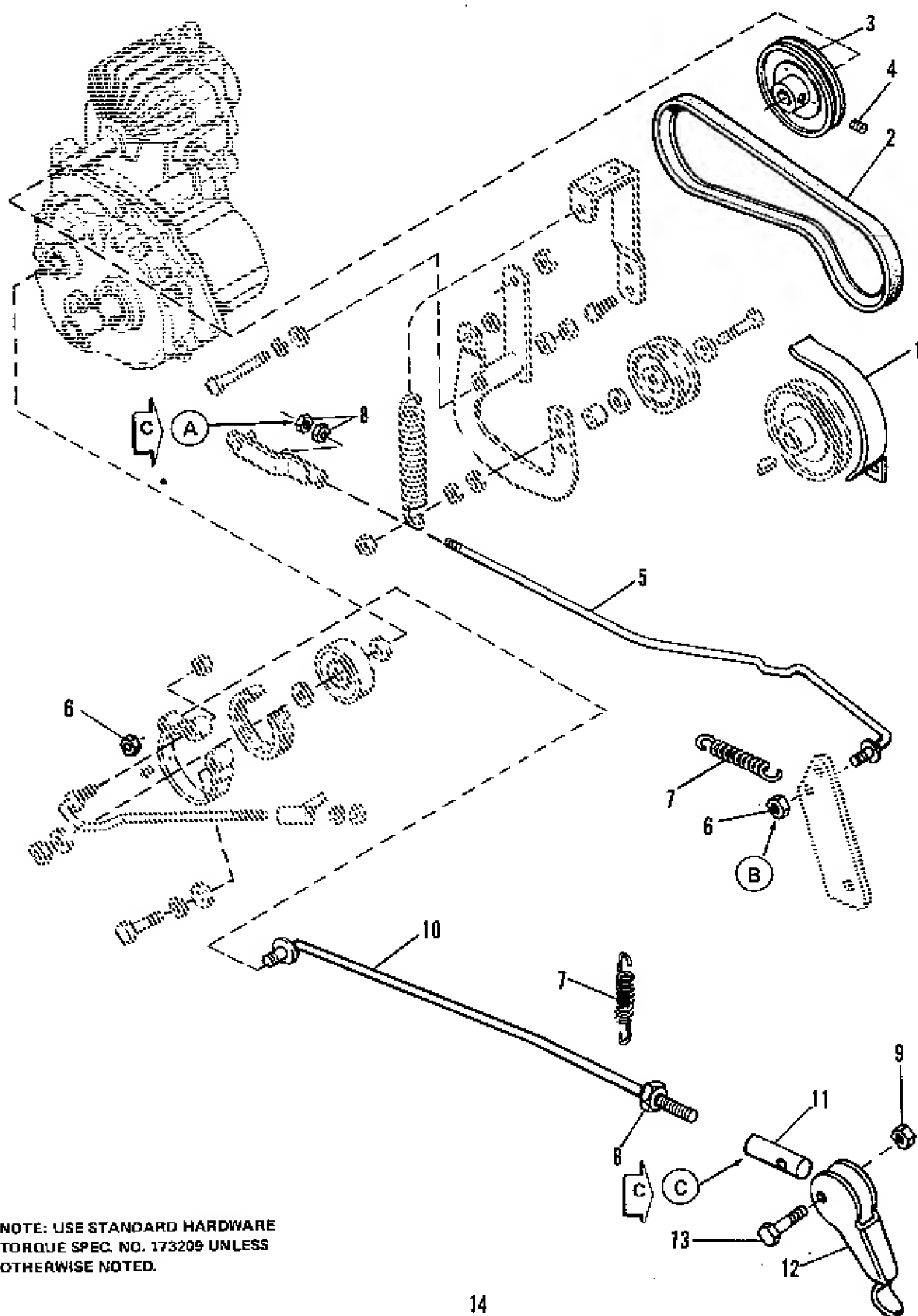
**CLUTCH & BRAKE – HYDRO**

7012 H, 7016 H &amp; 7018H

- A. Torque to 25-33 Ft. /Lbs.
- B. Tighten until snug but free to pivot.
-  C. Foot Pedal Brake Adjustment.

After parking brake & clutch free travel adjustments have been completed, adjust foot pedal brake as follows:

1. Lock parking brake.
2. Depress foot pedal until transmission drive belt clutch is fully disengaged & hold.
3. Turn foot pedal adjustment nut "B" against the rod guide No. 166119 to limit travel of foot pedal to the foot pedal position established in paragraph 2 above.
4. Lock adjustment nut "C" against adjustment nut "B" to secure brake adjustment.
5. Check brake.
  - A. Transmission drive belt clutch must be fully disengaged before service brake engages.
  - B. After adjustment, brake must stop tractor motion, in both directions, in a braking distance of 2 feet for each M.P.H. of maximum vehicle velocity. This shall be accomplished with a maximum force of 50 pounds applied to the brake foot pedal – (Ref. ANSI Std. B71.1a – 1974).
- D. Apply anti-seize compound to spacer.



NOTE: USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209 UNLESS  
OTHERWISE NOTED.



Ref. No.	Part No.	Qty.	Serial No.	Description
1	166122	1	(00000)-( )	GUARD ASSY
2	1650502	1	(00000)-( )	"V" BELT, Hydro Pump
3	166173	1	(00000)-( )	PULLEY
4	928709	1	(00000)-( )	SETSCREW, Sq. Hd., 5/16-18 x 3/8
5	1650531	1	(00000)-( )	ROD, Clutch
6	923362	2	(00000)-( )	NUT, Lock, Hex, 5/16-18
7	121037	2	(00000)-( )	SPRING
8	917372	3	(00000)-( )	NUT, Hex, Full, 5/16-18
9	923358	1	(00000)-( )	NUT, Lock, Hex, 1/4-20
10	172461	1	(00000)-( )	ROD ASSY
11	171994	1	(00000)-( )	ROD, End
12	172108	1	(00000)-( )	LEVER, Parking Brake
13	926771	1	(00000)-( )	CAPSCREW, Hex Hd., 1/4-20 x 1-1/4

### CLUTCH & BRAKE – HYDRO 7012 H, 7016 H & 7018H

#### A. Clutch Free Travel Adjustment

1. Rotate belt drive a minimum of 3 revolutions.
2. Make sure clutch pedal is released & clutch is as far to the rear as it will go.
3. Adjust double nuts for .375 inches between nuts & rod guide & lock together.

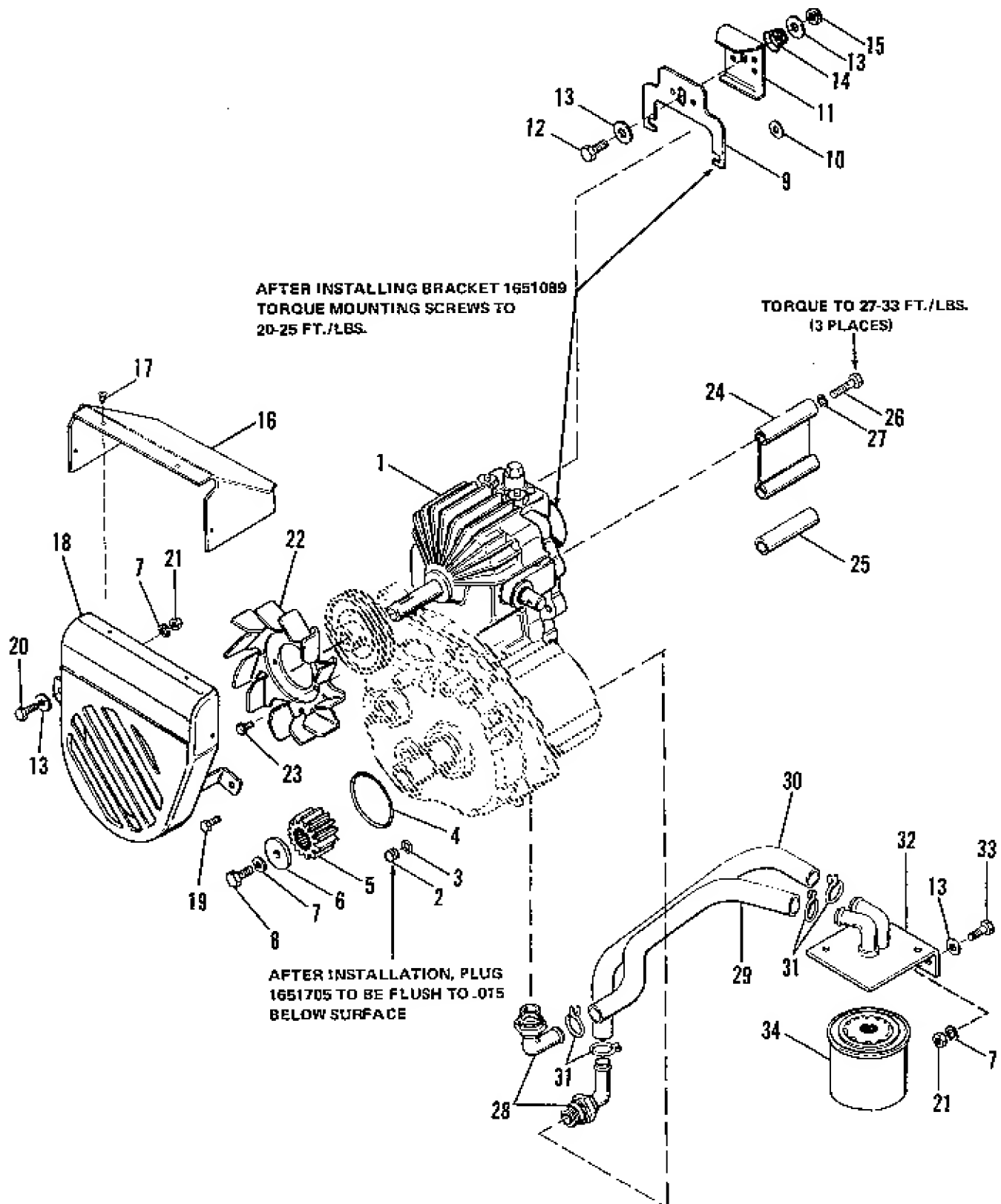
#### B. Nut Must Be Snug But Free To Pivot.



#### C. Parking Brake Adjustment

1. Loosen Nut "A".
2. Rotate parking brake lever - **172180** — To adjust parking brake. Turn lever one complete turn when making adjustments.
3. To lock parking brake, rotate lever up towards seat deck until lever is against upper area of footrest.
4. After adjustment, parking brake must hold the vehicle in any direction when parked on a 16.7 degree (30 percent) slope — (Ref. ANSI Std. B71.1a — 1974).
5. After parking brake is properly adjusted, secure adjustment tightening nut "A".



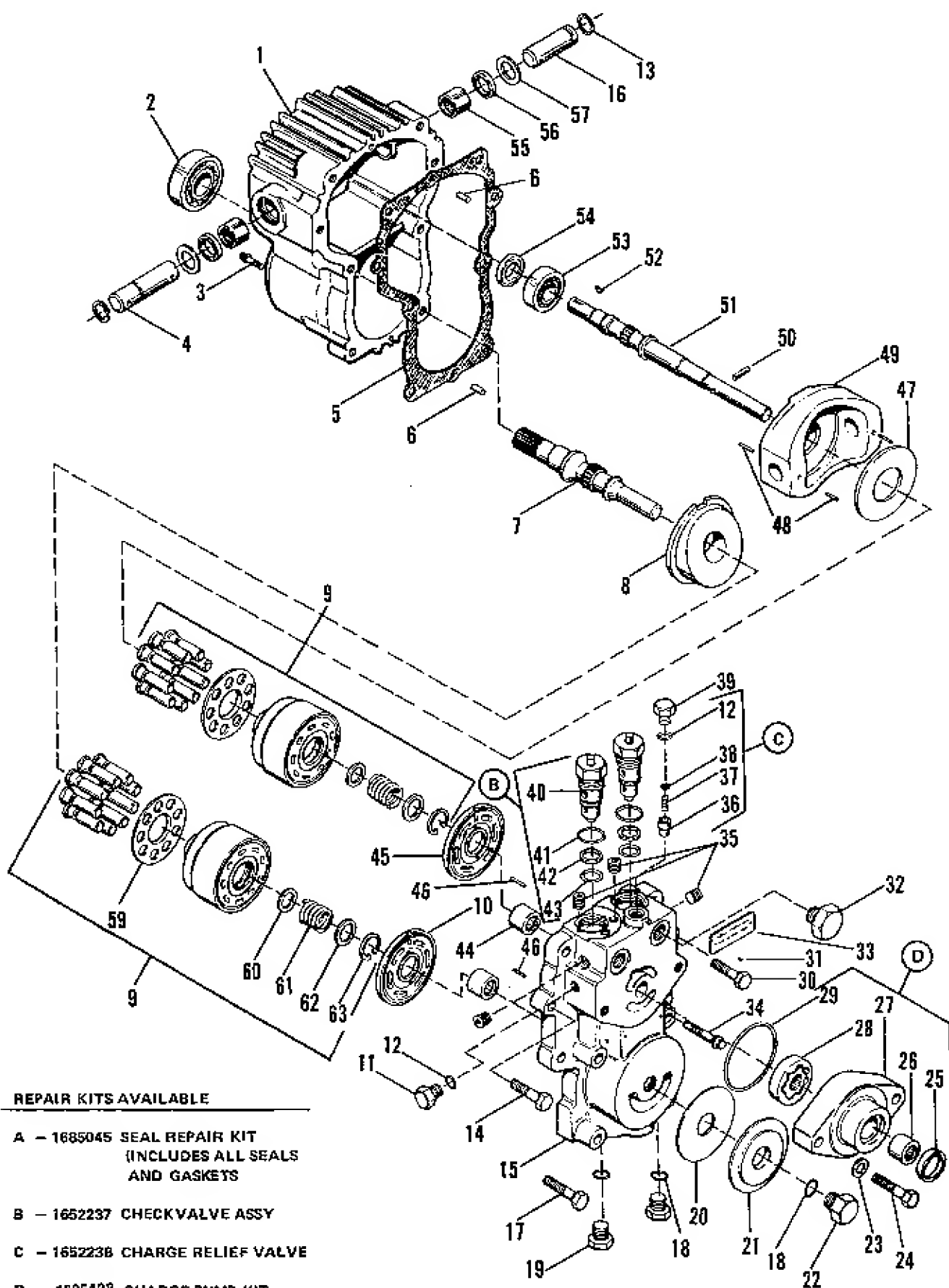


## Hydrostatic Pump Group (7012, 7016 &amp; 7018)

**Simplicity**

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Ref. No.	Part No.	Qty.	Serial No.	Description
1	1650301	1	{00000}-{ }	HYDRO PUMP & MOTOR UNIT
2	1651705	1	{00000}-{ }	PLUG
3	1651704	1	{00000}-{ }	"O" RING
4	1651703	1	{00000}-{ }	"O" RING
5	166003	1	{00000}-{ }	PINION, Motor Shaft
6	123144	1	{00000}-{ }	WASHER
7	917356	4	{00000}-{ }	LOCKWASHER, 5/16
8	921515	1	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 3/4
9	1651089	1	{00000}-{ }	BRACKET
10	156065	2	{00000}-{ }	WASHER
11	1651090	1	{00000}-{ }	RELEASE, Latch
12	921977	1	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 1
13	917642	5	{00000}-{ }	WASHER, 5/16
14	153010	1	{00000}-{ }	SPRING
15	923362	1	{00000}-{ }	LOCKNUT, Hex, 5/16-18
16	178779	1	{00000}-{ }	DEFLECTOR, Shroud
17	923735	4	{00000}-{ }	SCREW, Taptite No. 10-32 x 3/8
18	178774	1	{00000}-{ }	SHROUD ASSY, Fan
19	925359	1	{00000}-{ }	SCREW, Thd. Form., 5/16-18 x 1/2
20	921332	1	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 3/4
21	917372	3	{00000}-{ }	NUT, Hex Full, 5/16-18
22	166022	1	{00000}-{ }	FAN, Pulley
23	927428	3	{00000}-{ }	SCREW, Thd., Form., 1/4-20 x 3/8
24	1650633	1	{00000}-{ }	SPACER
25	1650524	1	{00000}-{ }	SPACER
26	925695	3	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 5
27	916965	3	{00000}-{ }	LOCKWASHER, 3/8
28	1650867	2	{00000}-{ }	INSERT, Hose
29	1650563	1	{00000}-{ }	HOSE
30	1650564	1	{00000}-{ }	HOSE
31	930709	4	{00000}-{ }	CLAMP, Hose
32	1650989	1	{00000}-{ }	SUPPORT ASSY, Oil Filter
33	919319	2	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 7/8
34	1650954	1	{00000}-{ }	FILTER ASSY



**REPAIR KITS AVAILABLE**

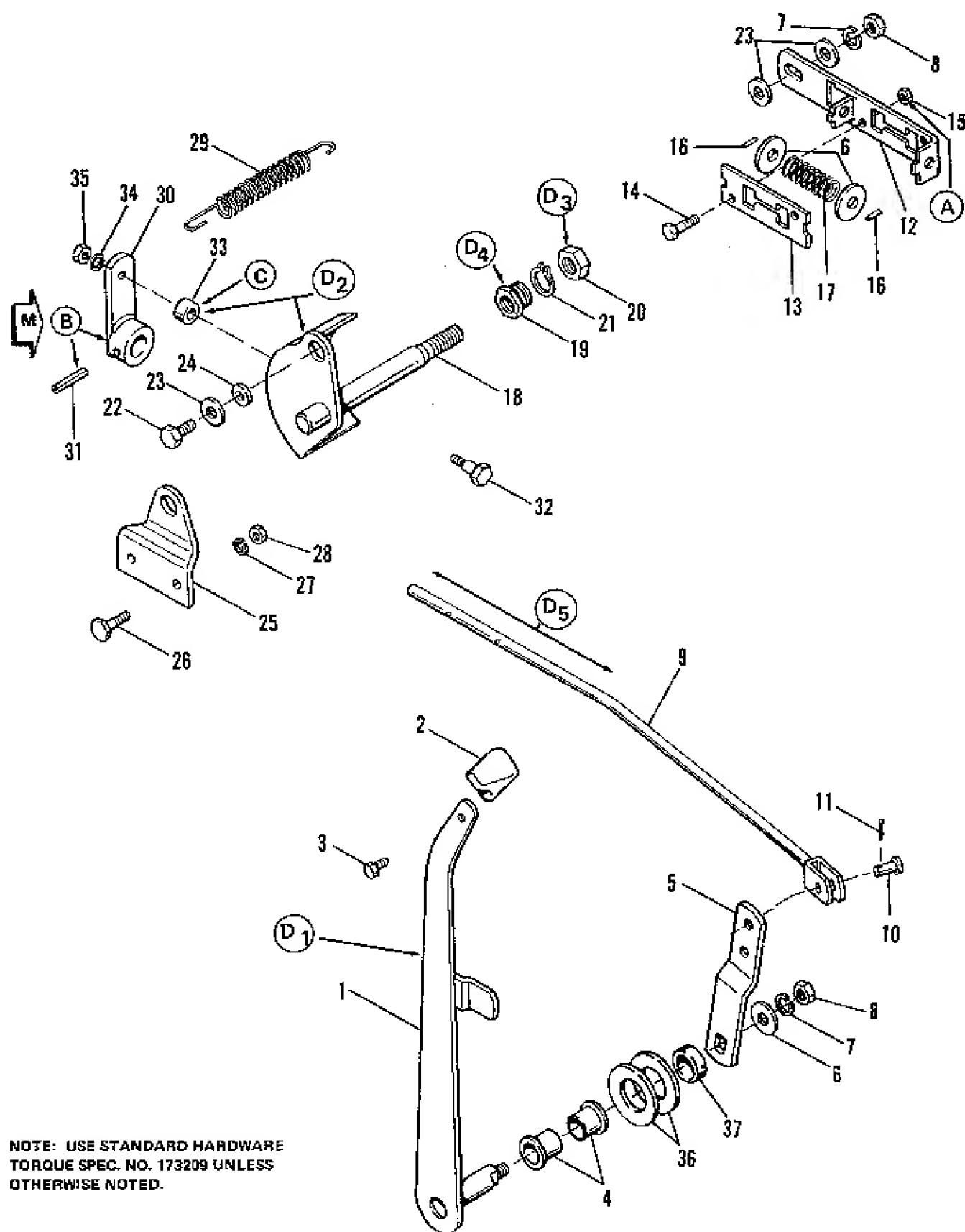
- A - 1685045 SEAL REPAIR KIT  
(INCLUDES ALL SEALS  
AND GASKETS)
- B - 1652237 CHECKVALVE ASSY
- C - 1652238 CHARGE RELIEF VALVE
- D - 1685128 CHARGE PUMP KIT

## Hydrostatic Pump (7012, 7016 &amp; 7018)

**Simplicity**

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Ref. No.	Part No.	Qty.	Serial No.	Description
1	1652180	1	{00000}-(-)	HOUSING
2	1652181	1	{00000}-(-)	BEARING, Ball
3	1652182	2	{00000}-(-)	CAPSCREW, 12 Pt.
4	1652183	1	{00000}-(-)	TRUNNION
5	1652184	1	{00000}-(-)	GASKET
6	1652185	2	{00000}-(-)	PIN, Str. Headless
7	1652186	1	{00000}-(-)	SHAFT, Motor
8	1652187	1	{00000}-(-)	PLATE, Swash
9	1652188	2	{00000}-(-)	CYLINDER BLOCK KIT
10	1652189	1	{00000}-(-)	VALVE, Plate
11	1652190	1	{00000}-(-)	PLUG, Hex Hd.
12	921884	2	{00000}-(-)	"O" RING
13	1652192	2	{00000}-(-)	RING, Retaining
14	920415	1	{00000}-(-)	CAPSCREW, Hex Hd.
15	1652254	1	{00000}-(-)	SECTION, Center
16	1652194	1	{00000}-(-)	TRUNNION
17	923701	4	{00000}-(-)	CAPSCREW, Hex Hd.
18	1652196	2	{00000}-(-)	"O" RING
19	1652197	2	{00000}-(-)	PLUG, Hex Hd.
20	1652198	1	{00000}-(-)	GASKET
21	1652199	1	{00000}-(-)	COVER PLATE, Filter
22	1652200	1	{00000}-(-)	PLUG, Special
23	1652201	2	{00000}-(-)	WASHER, Flat
24	925696	2	{00000}-(-)	CAPSCREW, Hex Hd.
25	1652203	1	{00000}-(-)	SEAL, Lip
26	1652204	1	{00000}-(-)	BEARING, Needle
27		1	{00000}-(-)	HOUSING, Charge Pump
28		1	{00000}-(-)	GEROTOR ASSY
29	1652207	1	{00000}-(-)	"O" RING
30	921969	1	{00000}-(-)	CAPSCREW, Hex Hd.
31	1652209	2	{00000}-(-)	SCREW, Drive
32	1652210	2	{00000}-(-)	PLUG, Str. Thd., Hex
33		1	{00000}-(-)	PLATE, Name
34	1652212	2	{00000}-(-)	CAPSCREW, 12 Pt.
35	1652213	4	{00000}-(-)	PLUG, Pipe
36	1652214	3	{00000}-(-)	CONE, Relief Valve
37	1652215	3	{00000}-(-)	SPRING, Relief Valve
38	1652216	A/R	{00000}-(-)	SHIM
39	1652217	1	{00000}-(-)	PLUG, Hex Hd.
40	1652218	2	{00000}-(-)	CHECK VALVE ASSY
41	1652219	2	{00000}-(-)	"O" RING
42	1652220	2	{00000}-(-)	RING, Back-up
43	1652221	2	{00000}-(-)	"O" RING
44	1652222	2	{00000}-(-)	BEARING, Needle
45	1652223	1	{00000}-(-)	PLATE, Valve
46	1652224	2	{00000}-(-)	PIN, Str. Headless
47	1652225	1	{00000}-(-)	PLATE, Thrust
48	1652226	3	{00000}-(-)	PIN, Coiled Spring
49	1652227	1	{00000}-(-)	PLATE, Swash
50	1652228	1	{00000}-(-)	PIN, Str. Headless
51	1652229	1	{00000}-(-)	SHAFT, Pump
52	905123	1	{00000}-(-)	KEY, Woodruff
53	1652231	1	{00000}-(-)	BEARING, Ball
54	1652232	1	{00000}-(-)	SEAL, Lip
55	1652251	2	{00000}-(-)	BEARING, Needle
56	1652234	2	{00000}-(-)	SEAL, Lip
57	1652236	2	{00000}-(-)	WASHER, Special
59	1656009	2	{00000}-(-)	RETAINER, Slipper
60	1656007	2	{00000}-(-)	WASHER, Front
61	1656006	2	{00000}-(-)	SPRING
62	1656005	2	{00000}-(-)	WASHER, Rear
63	1656004	2	{00000}-(-)	RING, Retaining



NOTE: USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209 UNLESS  
OTHERWISE NOTED.

Ref. No.	Part No.	Qty.	Serial No.	Description
1	1665257	1	{00000}-{ }	LEVER ASSY, Control
2	171165	1	{00000}-{ }	KNOB
3	925592	1	{00000}-{ }	SCREW, Thd. Form., 1/4-20 x 3/4
4	108419	2	{00000}-{ }	BUSHING
5	1650358	1	{00000}-{ }	LINK
6	917378	3	{00000}-{ }	WASHER, 3/8
7	916965	2	{00000}-{ }	LOCKWASHER, 3/8
8	916950	2	{00000}-{ }	NUT, Hex, Full, 3/8-16
9	1650715	1	{00000}-{ }	ROD ASSY, Control
10	1651167	1	{00000}-{ }	PIN
11	918447	1	{00000}-{ }	PIN, Cotter, 3/32 x 3/4
12	1650712	1	{00000}-{ }	GUIDE, Control Rod
13	1650713	1	{00000}-{ }	PLATE, Guide
14	908297	2	{00000}-{ }	CAPSCREW, Hex Hd., 1/4-20 x 1-1/4
15	923358	2	{00000}-{ }	LOCKNUT, Hex, 1/4-20
16	919180	2	{00000}-{ }	PIN, Roll
17	1650347	1	{00000}-{ }	SPRING
18	1650874	1	{00000}-{ }	SHAFT ASSY
19	1650872	1	{00000}-{ }	NUT, Adjusting
20	913744	1	{00000}-{ }	NUT, Hex, Jam, 1/2-13
21	927794	1	{00000}-{ }	RING, Retaining
22	907731	1	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 1
23	917642	3	{00000}-{ }	WASHER, 5/16
24	1650506	1	{00000}-{ }	SPACER
25	1650401	1	{00000}-{ }	BRACKET, Pivot
26	106772	2	{00000}-{ }	SCREW, Special
27	917356	2	{00000}-{ }	LOCKWASHER, 5/16
28	917372	2	{00000}-{ }	NUT, Hex, Full, 5/16-18
29	174896	1	{00000}-{ }	SPRING
30	1650392	1	{00000}-{ }	LINK ASSY, Control
31	916937	1	{00000}-{ }	PIN, Roll, 1/4 x 1-1/4
32	1650821	1	{00000}-{ }	BOLT, Shoulder
33	1650592	1	{00000}-{ }	ROLLER, Cam
34	916964	1	{00000}-{ }	LOCKWASHER, 1/4
35	916622	1	{00000}-{ }	NUT, Hex, Full, 1/4-20
36	168025	2	{00000}-{ }	WASHER, Spring
37	1665251	1	{00000}-{ }	SPACER

**A**

Tighten locknuts 923358 until plate 1650713 and guide 1650712 are held firmly together. After assembly, rod assembly 1650715 must slide through guide 1650712 without binding.

**B**

To prevent internal damage to hydrostatic unit, hub of 1650392 link assembly must be supported while 916937 pin is being installed.

**C**

Roller must rotate freely after assembly. To obtain hydrostatic neutral adjustment, complete following steps.

**D<sub>1</sub>**

Place control lever assembly 1650400 in neutral position on quadrant.

**D<sub>2</sub>**

Loosen nut 916950 and rotate cam shaft assembly until center mark on cam aligns with center of cam roller 1650592. Retighten nut to secure adjustment.

**D<sub>3</sub>**

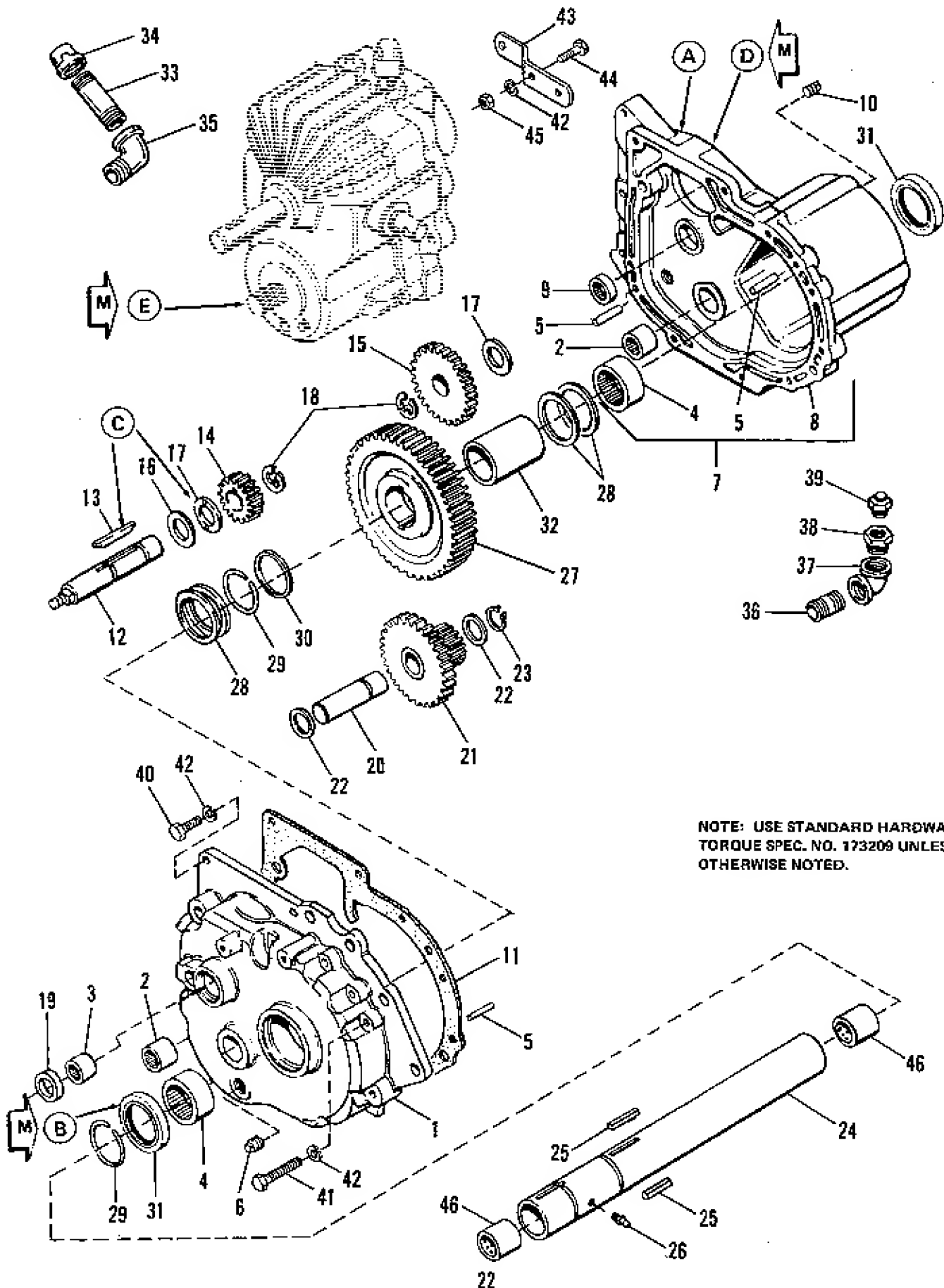
Loosen Nut 913744

**D<sub>4</sub>**

With unit running, rotate adjusting nut 1650872 until rear wheels stop turning. Retighten nut to secure adjustment.

**D<sub>5</sub>**

Cycle control lever 1650400 from full forward to full reverse and back to neutral to check adjustment.





## Transmission Group (7012, 7016 &amp; 7018)

**Simplicity**

10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	1650427	1	{00000}-{ }	COVER ASSY, Gear Case (w/bearings)
2	166018	2	{00000}-{ }	BEARING, Needle
3	166019	1	{00000}-{ }	BEARING, Needle
4	1652469	2	{00000}-{ }	BEARING, Needle
5	918113	2	{00000}-{ }	PIN, Roll, 3/8 x 1
6	901653	1	{00000}-{ }	PLUG, Pipe
7	1650429	1	{00000}-{ }	GEAR CASE ASSY (w/bearings)
8	178550	1	{00000}-{ }	GEAR CASE
9	154271	1	{00000}-{ }	BEARING, Needle
10	901652	1	{00000}-{ }	PLUG, Pipe
11	166043	1	{00000}-{ }	GASKET
12	1650775	1	{00000}-{ }	SHAFT, Braks
13	166014	1	{00000}-{ }	KEY
14	175243	1	{00000}-{ }	PINION
15	166004	1	{00000}-{ }	GEAR
16	1651078	1	{00000}-{ }	WASHER
17	166013	2	{00000}-{ }	WASHER
18	176980	2	{00000}-{ }	RING, Retaining
19	166021	1	{00000}-{ }	SEAL
20	166012	1	{00000}-{ }	SHAFT, Interm.
21	176236	1	{00000}-{ }	PINION & SHAFT ASSY
22	166016	2	{00000}-{ }	WASHER
23	166017	1	{00000}-{ }	RING, Retaining
24	1651517	1	{00000}-{ }	AXLE TUBE ASSY
25	156086	2	{00000}-{ }	KEY
26	914687	1	{00000}-{ }	FITTING, Grease
27	1652504	1	{00000}-{ }	GEAR, Drive
28	154097	4	{00000}-{ }	WASHER
29	154268	2	{00000}-{ }	RING, Retaining
30	166167	1	{00000}-{ }	WASHER
31	154269	2	{00000}-{ }	SEAL
32	1651512	1	{00000}-{ }	SPACER, L.H. Axle
33	901493	1	{00000}-{ }	NIPPLE, Pipe
34	901752	1	{00000}-{ }	CAP, Pipe
35	901753	1	{00000}-{ }	STREET, Elbow
36	901480	1	{00000}-{ }	NIPPLE, Pipe
37	901677	1	{00000}-{ }	ELBOW, Pipe
38	901825	1	{00000}-{ }	BUSHING, Pipe
39	172899	1	{00000}-{ }	VALVE, Relief
40	921333	5	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18x 3/4
41	921978	4	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x2
42	917356	11	{00000}-{ }	LOCKWASHER, 5/16
43	1650852	1	{00000}-{ }	SUPPORT, Spring
44	916431	2	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 1
45	917372	2	{00000}-{ }	NUT, Hex, Full, 5/16-18
46	1653120	2	{00000}-{ }	BUSHING

## HYDROSTATIC TRANSMISSION

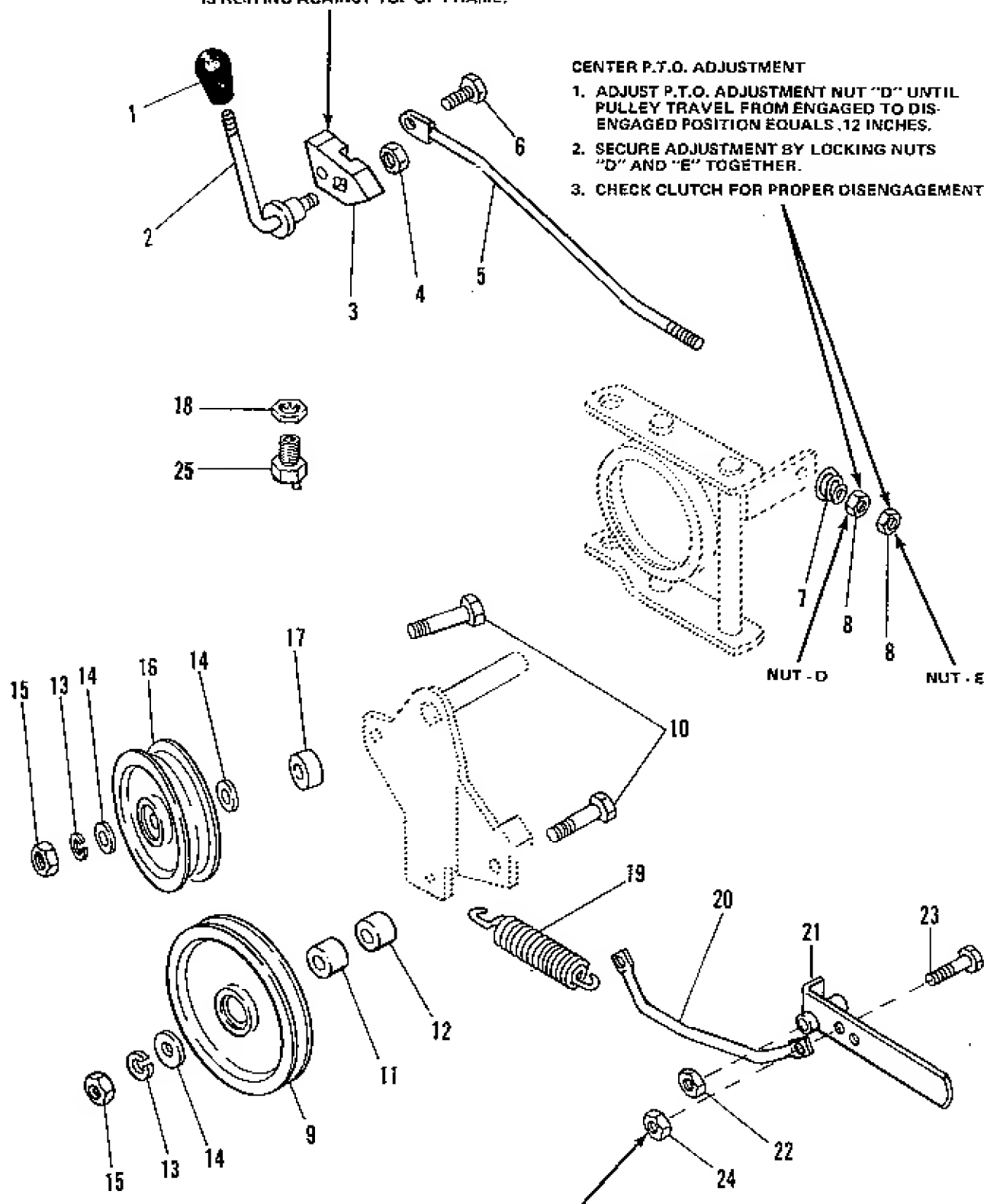
7012 H, 7016 H, &amp; 7018 H

- Mask hydrostatic mounting surface and cover hole prior to painting.
  - Grease inside lips of all seals before installation. Install seals with spring toward inside.
  - Notch in washer 1651078 must fit over key 166014
  - Use 1651180 — Gasket place 1/8 bead all around.
- Surface must be clean and free of metal chips, dirt and other contaminants.
- Make sure "O" ring on pilot bearing stays in place until assy. is complete.
  - After contact is made with gasket material, complete assy in a manner that will prevent smearing of gasket material.
  - Clean mating surface with LocQuic primer NF by spraying & wiping with clean cloth to remove contamination. If part is assembled within 30 minutes no additional treatment is required. Otherwise spray thin film onto surface. Permit to visibly dry. Items Pinion 166003, washer, 123144, screw 921515, lockwasher 917356, "O" ring, 1651704, "O" ring 1651703, & plug 1651705 to be clean and free of metal chips, dirt and other contaminants harmful to the hydrostatic transmission.

ADJUST P.T.O. INTERLOCK SWITCH 177522  
TO MAKE CONTACT WHEN LEVER 173991  
IS RESTING AGAINST TOP OF FRAME.

#### CENTER P.T.O. ADJUSTMENT

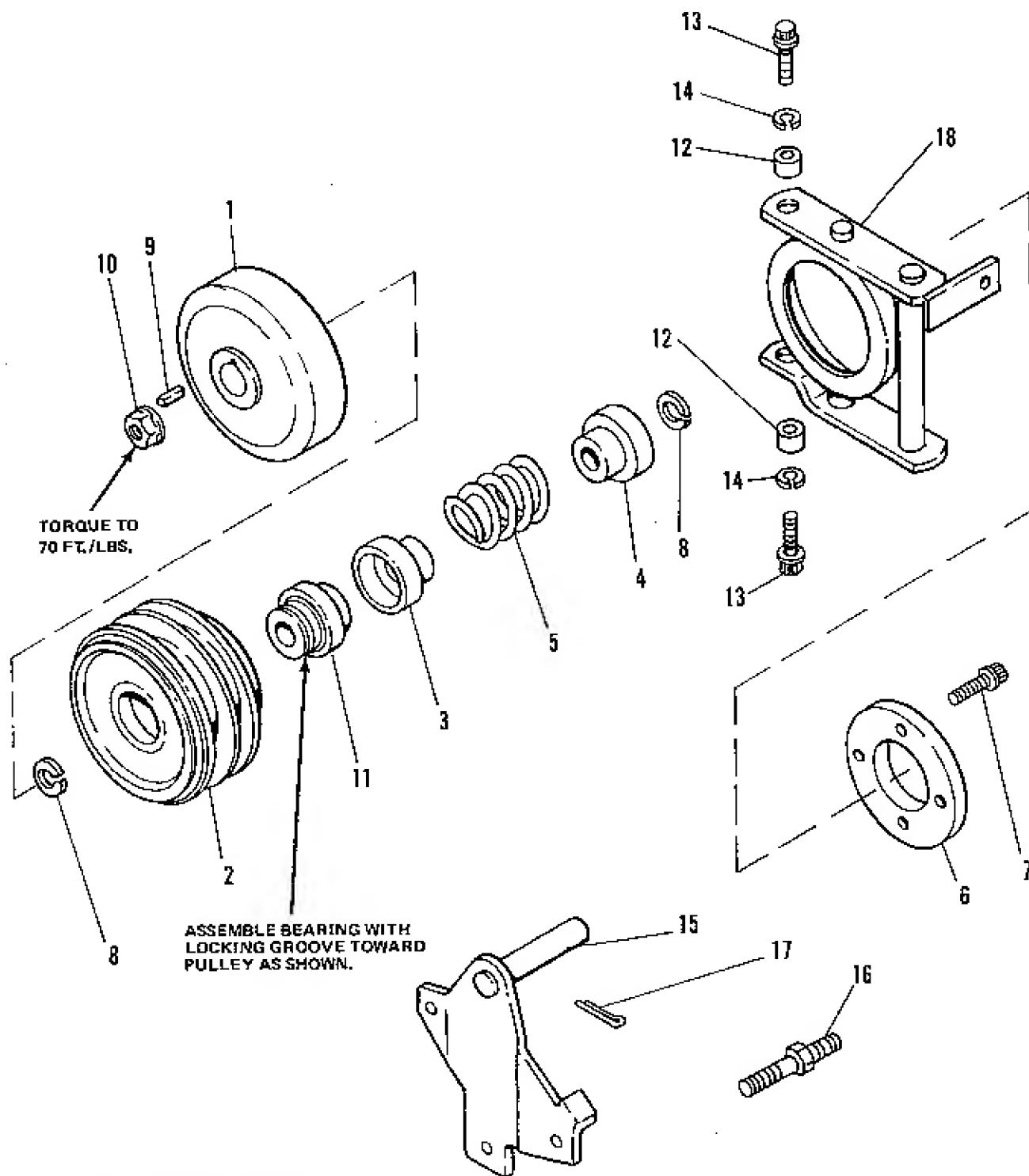
1. ADJUST P.T.O. ADJUSTMENT NUT "D" UNTIL PULLEY TRAVEL FROM ENGAGED TO DIS-ENGAGED POSITION EQUALS .12 INCHES.
2. SECURE ADJUSTMENT BY LOCKING NUTS "D" AND "E" TOGETHER.
3. CHECK CLUTCH FOR PROPER DISENGAGEMENT.



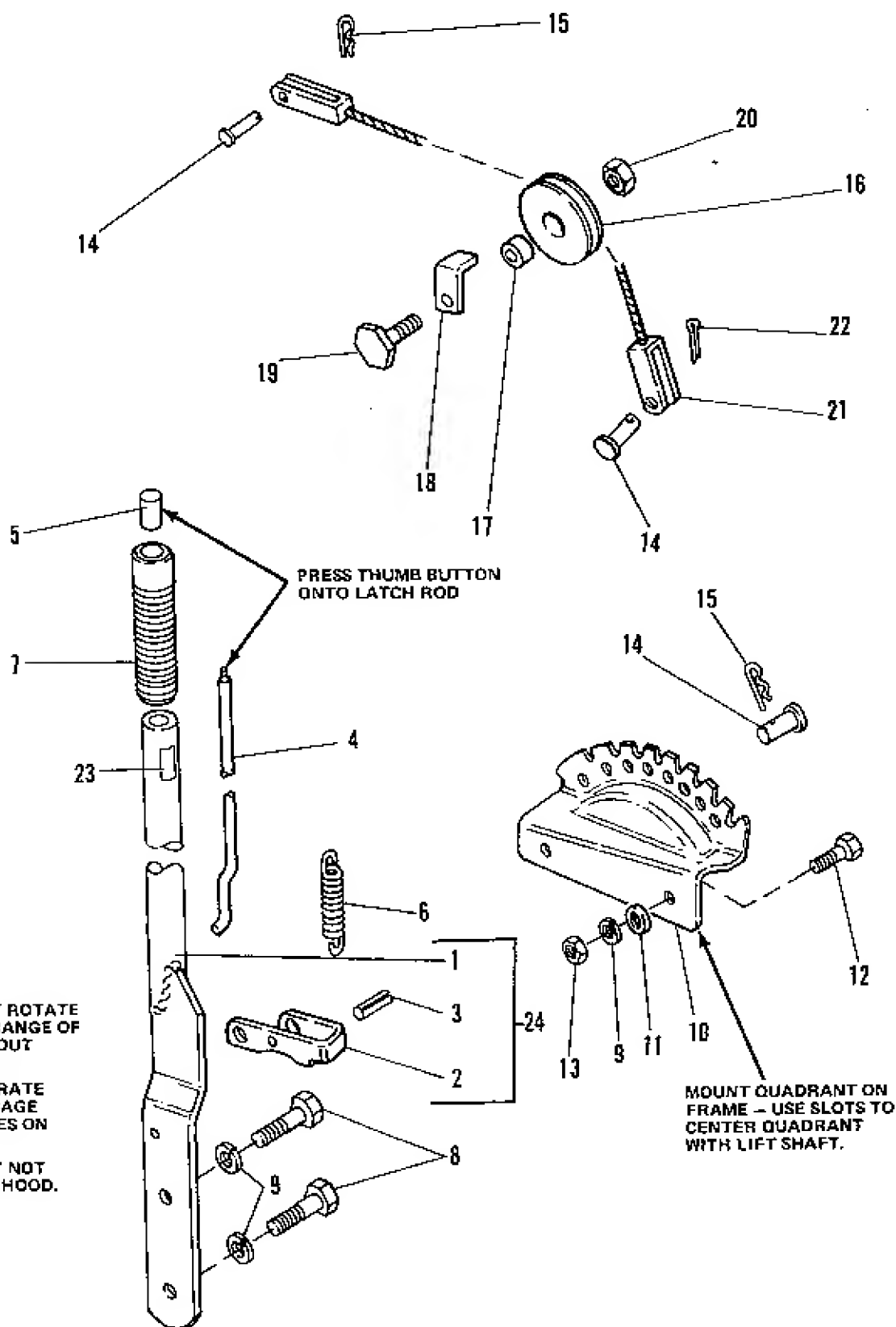
USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209  
UNLESS OTHERWISE NOTED.

HANDLE ASSEMBLY MUST PIVOT  
FREELY AFTER NUT IS TIGHTENED.

Ref. No.	Part No.	Qty.	Serial No.	Description
1	172038	1	{00000}-( )	KNOB
2	174664	1	{00000}-( )	HANDLE, Clutch P.T.O.
3	173991	1	{00000}-( )	LEVER
4	930651	1	{00000}-( )	LOCKNUT, Hex, 3/8-16
5	173988	1	{00000}-( )	CONTROL ROD ASSEMBLY
6	174686	1	{00000}-( )	CAPSCREW, Special
7	175316	1	{00000}-( )	SPRING
8	917372	2	{00000}-( )	NUT, Hex, Full, 5/16-18
9	173982	1	{00000}-( )	PULLEY
10	923701	2	{00000}-( )	CAPSCREW, Hex Hd., 3/8-16 x 2
11	170291	1	{00000}-( )	SPACER
12	172329	1	{00000}-( )	SPACER
13	916965	2	{00000}-( )	LOCKWASHER, 3/8
14	917642	3	{00000}-( )	WASHER, 5/16
15	916950	2	{00000}-( )	NUT, Hex, Full, 3/8-16
16	1657712	1	{00000}-( )	PULLEY
17	157081	1	{00000}-( )	SPACER
18	930647	1	{00000}-( )	NUT, Pat
19	157262	1	{00000}-( )	SPRING, Tension
20	164047	1	{00000}-( )	ROD, Tension
21	164155	1	{00000}-( )	HANDLE ASSEMBLY
22	924058	1	{00000}-( )	LOCKNUT, Hex, 7/16-14
23	921332	1	{00000}-( )	CAPSCREW, Hex Hd., 5/16-18 x 3/4
24	923362	1	{00000}-( )	LOCKNUT, Hex, 5/16-18
25	177522	1	{00000}-( )	SWITCH, Interlock



Ref. No.	Part No.	Qty.	Serial No.	Description
1	174862	1	(00000)-( )	CLUTCH PLATE ASSEMBLY
2	1650304	1	(00000)-( )	PULLEY
3	1650252	1	(00000)-( )	GUIDE, Spring
4	1650264	1	(00000)-( )	GUIDE, Spring
5	171772	1	(00000)-( )	SPRING
6	173957	1	(00000)-( )	DISC, Brake
7	920036	4	(00000)-( )	CAPSCREW, Skt. Hd., 1/4-20 x 5/8
8	172206	2	(00000)-( )	RING, Retaining
9	905850	1	(00000)-( )	KEY
10	922133	1	(00000)-( )	LOCKNUT, Flange, 1/2-13
11	1650264	1	(00000)-( )	BEARING ASSEMBLY
12	171371	2	(00000)-( )	SPACER
13	1651450	2	(00000)-( )	SCREW, Thd. Forming
14	917356	2	(00000)-( )	LOCKWASHER, 5/16
15	174455	1	(00000)-( )	PIVOT ARM ASSEMBLY
16	157273	1	(00000)-( )	STUD
17	918459	1	(00000)-( )	PIN, Cotter, 3/16 x 1-1/2
18	1650906	1	(00000)-( )	PIVOT ASSEMBLY



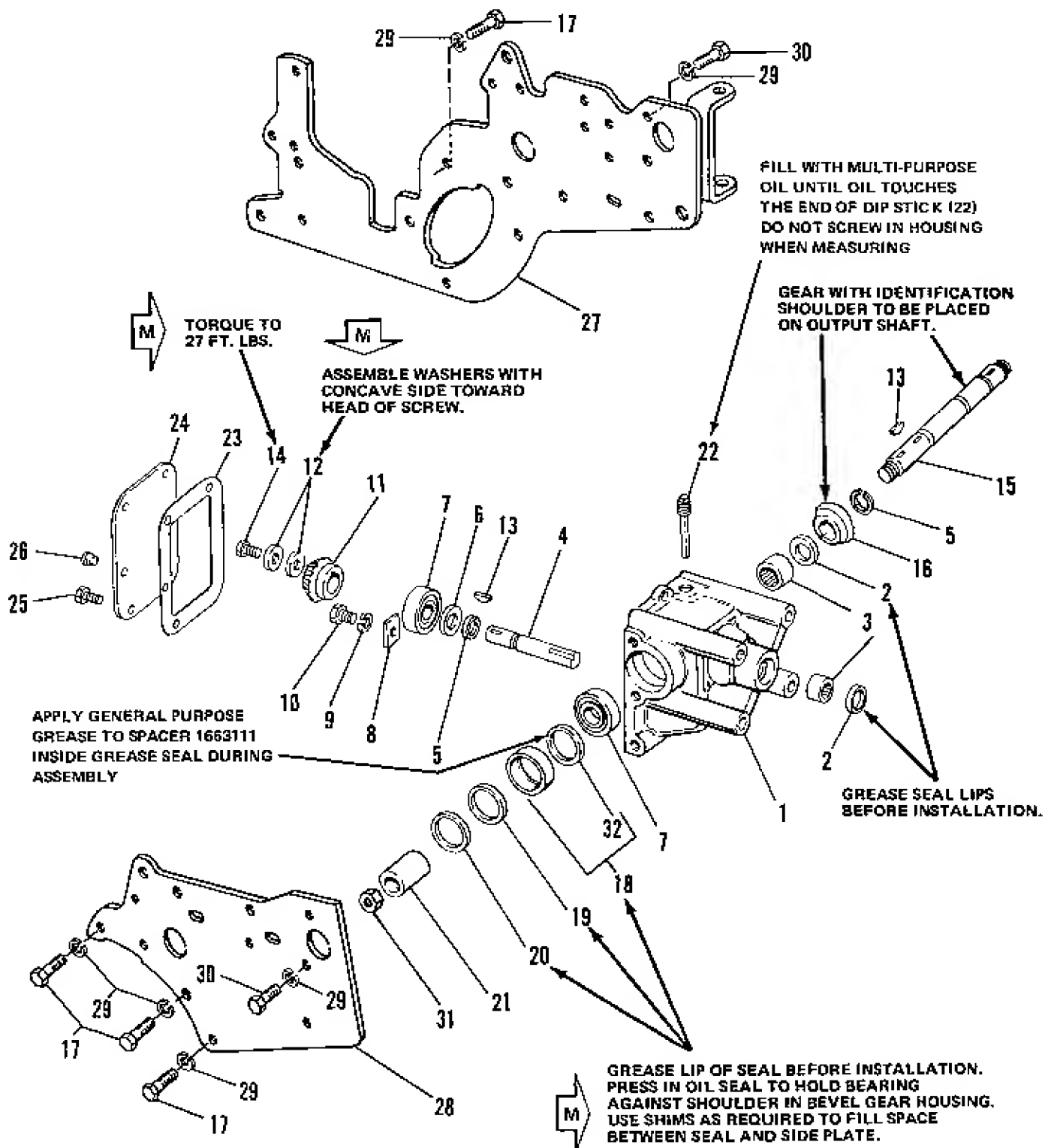
USE STD. HARDWARE TORQUE SPEC NO.  
173209 UNLESS OTHERWISE NOTED

Lift Lever & Cable Group (7012, 7016 & 7018)

**Simplicity**

10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	1651389	1	(00000)-( )	LIFT LEVER ASSEMBLY
2	173039	1	(00000)-( )	LATCH, Lift Lever
3	918390	1	(00000)-( )	PIN, Spring, 3/8 x 1-1/4
4	1651197	1	(00000)-( )	ROD, Latch
5	1650157	1	(00000)-( )	BUTTON
6	1650155	1	(00000)-( )	SPRING
7	156209	1	(00000)-( )	GRIP
8	923490	2	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1
9	916965	4	(00000)-( )	LOCKWASHER, 3/8
10	171599	1	(00000)-( )	QUADRANT
11	917642	2	(00000)-( )	WASHER, 5/16
12	908127	2	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 3/4
13	916950	2	(00000)-( )	NUT, Hex, Full, 3/8-16
14	153058	3	(00000)-( )	PIN
15	918196	2	(00000)-( )	CLIP, Spring
16	172725	1	(00000)-( )	PULLEY
17	157081	1	(00000)-( )	SPACER
18	174723	2	(00000)-( )	GUARD, Cable
19	108418	1	(00000)-( )	SCREW, Special
20	928731	1	(00000)-( )	LOCKNUT, Hex, Jam, 3/8-16
21	174085	1	(00000)-( )	LIFT CABLE ASSY
22	918447	1	(00000)-( )	PIN, Cotter, 3/32 x 3/4
23	175216	1	(00000)-( )	DECAL, Lift Lever
24	1654152	1	(00000)-( )	LIFT LEVER SUB ASSY.



USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209  
UNLESS OTHERWISE NOTED.

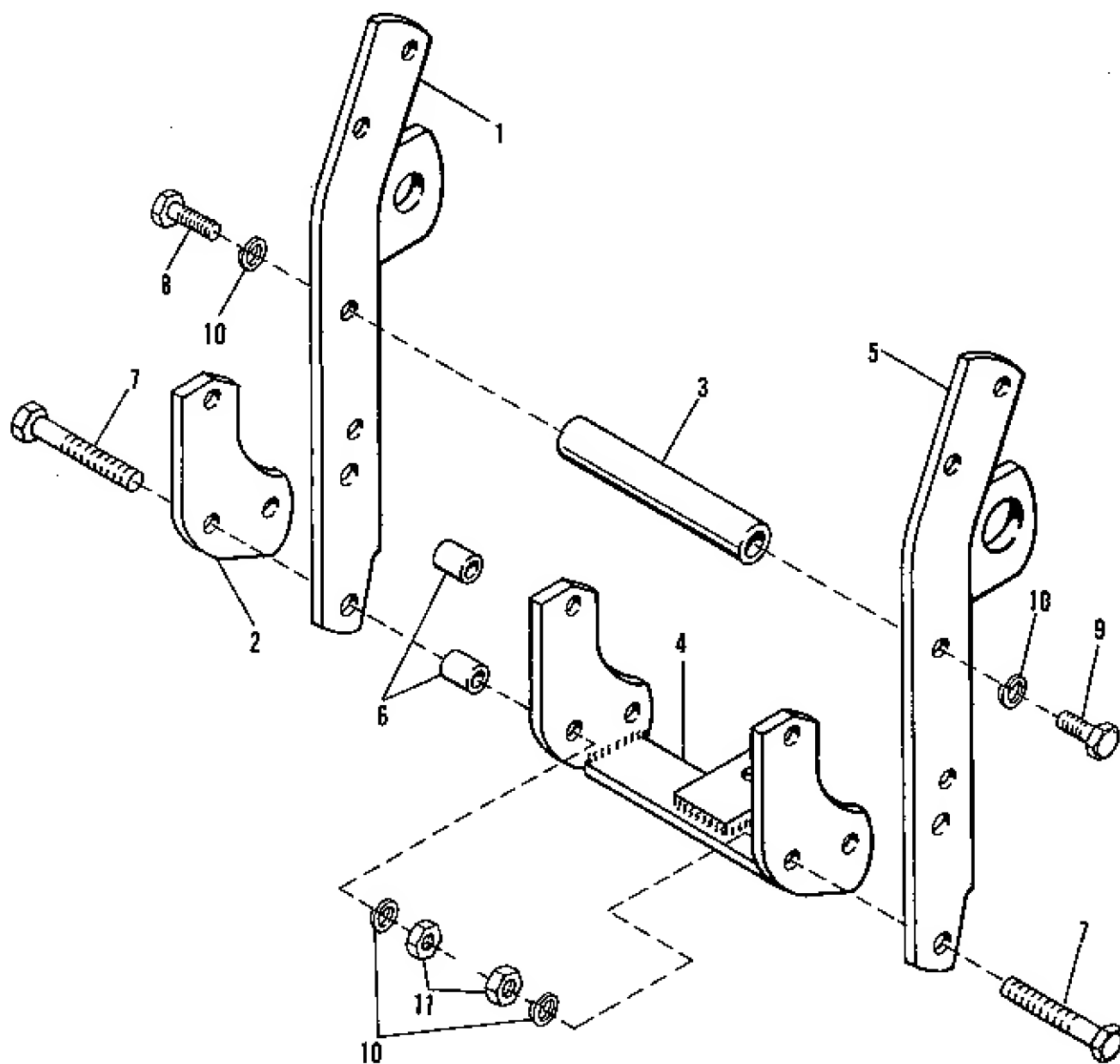


## Bevel Gear &amp; Side Plate Group (7012, 7016 &amp; 7018)

**Simplicity**

10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	171797	1	{00000}-{ }	HOUSING, Bevel Gear
2	118117	2	{00000}-{ }	SEAL, Oil
3	154279	2	{00000}-{ }	BEARING, Needle
4	172750	1	{00000}-{ }	SHAFT, Driver
5	172206	2	{00000}-{ }	RING, Retaining
6	172753	1	{00000}-{ }	WASHER
7	172256	2	{00000}-{ }	BEARING, Ball
8	154040	1	{00000}-{ }	PLATE, Bearing Clamp
9	917356	1	{00000}-{ }	LOCKWASHER, 5/16
10	925205	1	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 5/8
11	172752	1	{00000}-{ }	GEAR, Bevel Driver
12	177649	2	{00000}-{ }	WASHER
13	905123	2	{00000}-{ }	KEY, Woodruff, No. 9
14	154281	1	{00000}-{ }	CAPSCREW, Hex Hd., 5/16-18 x 3/4
15	1657178	1	{00000}-{ }	SHAFT, Driven
16	171796	1	{00000}-{ }	GEAR, Bevel Driven
17	920677	6	{00000}-{ }	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4
18	1685088	1	{00000}-{ }	SEAL, Oil, Kit, (Replaces 171787)
19	171791	1	{00000}-{ }	SHIM
20	171790	5	{00000}-{ }	SHIM
21	171792	1	{00000}-{ }	SPACER
22	178105	1	{00000}-{ }	PLUG ASSY
23	154282	1	{00000}-{ }	GASKET
24	178104	1	{00000}-{ }	COVER
25	930526	6	{00000}-{ }	CAPSCREW, Hex, 1/4-20 x 5/8
26	901652	1	{00000}-{ }	PLUG, Pipe
27	178597	1	{00000}-{ }	PLATE ASSY, Side, L.H.
28	1650414	1	{00000}-{ }	PLATE ASSY, Side, R.H.
29	918199	12	{00000}-{ }	LOCKWASHER, 7/16
30	920676	6	{00000}-{ }	CAPSCREW, Hex Hd., 7/16-14 x 1
31	922133	1	{00000}-{ }	LOCKNUT, Hex, Jam, 3/4-16
32	1663111	1	{00000}-{ }	SPACER, Oil Seal



NOTE: USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209 UNLESS  
OTHERWISE NOTED.

Mfg. No. 1690342, 1690352, 1690366, 1690427, 1690429, 1690431, & 1690433.

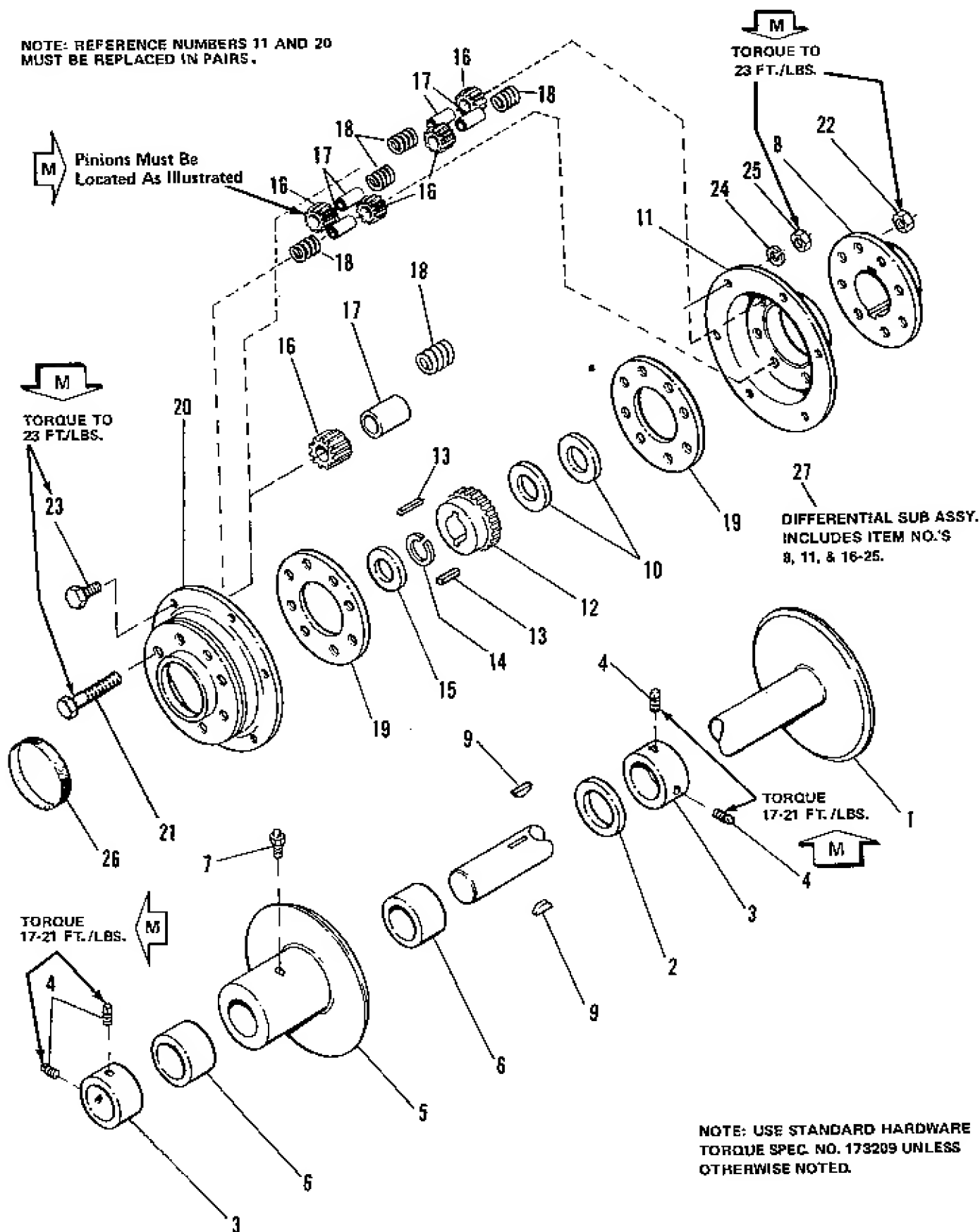
*Draw Bar Group ( 7012, 7016 & 7018)*

***Simplicity***

1-78

Ref. No.	Part No.	Qty.	Serial No.		Description
1	166206	1	{00000}-{	}	BAR ASSY, Upright, R.H.
2	166075	1	{00000}-{	}	PLATE
3	166110	1	{00000}-{	}	SPACER
4	166074	1	{00000}-{	}	BAR ASSY, Draw
5	166072	1	{00000}-{	}	BAR ASSY, Upright L.H.
6	1608759	2	{00000}-{	}	SPACER
7	930584	2	{00000}-{	}	CAPSCREW, Hex, 7/16-14 x 2-3/4
8	923027	1	{00000}-{	}	CAPSCREW, Hex, 7/16-14 x 1-3/4
9	920677	3	{00000}-{	}	CAPSCREW, Hex, 7/16-14 x 1-1/4
10	918199	6	{00000}-{	}	LOCKWASHER, 7/16
11	918213	4	{00000}-{	}	NUT, Hex, 7/16-14

NOTE: REFERENCE NUMBERS 11 AND 20  
MUST BE REPLACED IN PAIRS.

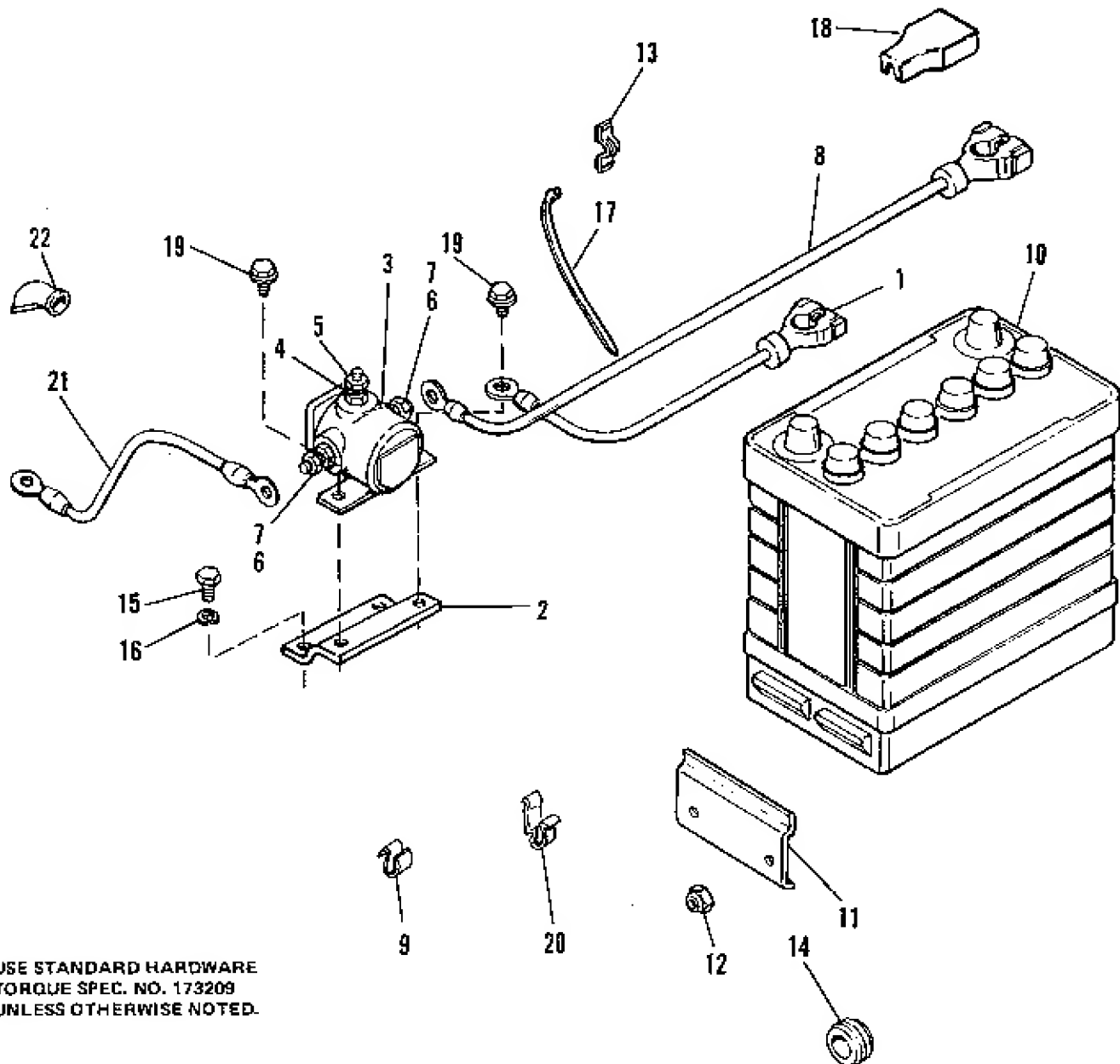


## Rear Axle &amp; Differential Group (7012, 7016 &amp; 7018)

**Simplicity**

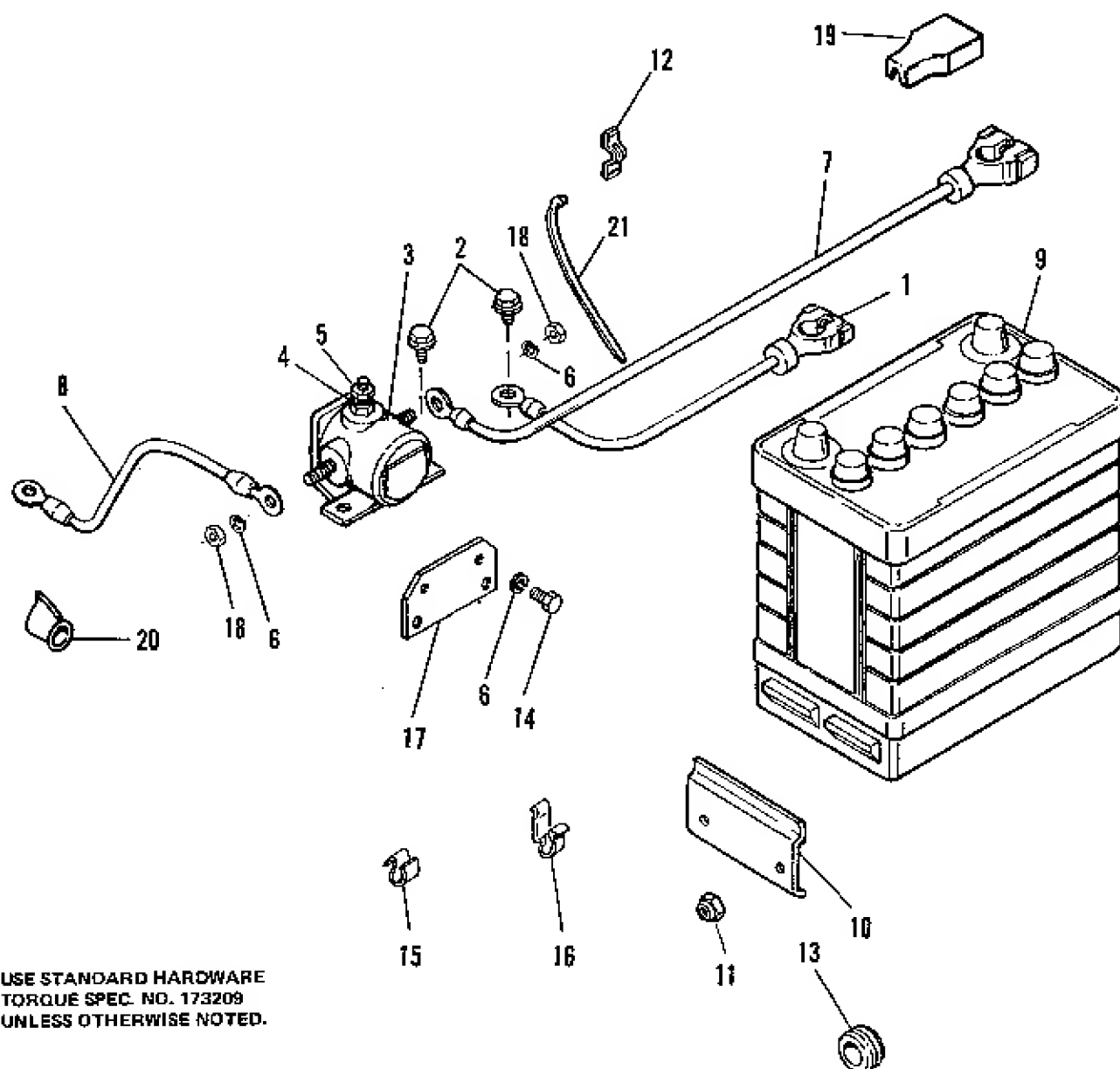
10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	177900	1	(00000)-( )	REAR AXLE ASSEMBLY
2	105050	1	(00000)-( )	WASHER
3	154065	2	(00000)-( )	COLLAR, Set
4	928709	4	(00000)-( )	SETSCREW, Sq. Hd., 5/16-18 x 3/8
5	176945	1	(00000)-( )	R.H. WHEEL HUB ASSEMBLY
6	153068	2	(00000)-( )	BEARING
7	915019	1	(00000)-( )	FITTING, Grease
8	164217	1	(00000)-( )	CARRIER, Diff.
9	157120	2	(00000)-( )	KEY, Drive
10	171515	2	(00000)-( )	WASHER, Axle
11	171853	1	(00000)-( )	COVER, Diff.
12	177041	1	(00000)-( )	GEAR, Diff.
13	930671	2	(00000)-( )	KEY, Hi Pro, 1/4 x 3/4
14	154291	1	(00000)-( )	RING, Retaining
15	154277	1	(00000)-( )	WASHER, Axle
16	158579	8	(00000)-( )	PINION, Diff.
17	121083	8	(00000)-( )	SPINDLE, Diff, Pinion
18	162085	8	(00000)-( )	SPRING
19	171517	2	(00000)-( )	RING, Spacer
20	171854	1	(00000)-( )	COVER, Diff.
21	921972	8	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 2-1/2
22	930651	8	(00000)-( )	LOCKNUT, Center, 3/8-16
23	921959	6	(00000)-( )	CAPSCREW, Hex, 1/4-20 x 5/8
24	916964	6	(00000)-( )	LOCKWASHER, 1/4
25	916622	6	(00000)-( )	NUT, Hex, 1/4-14
26	121190	1	(00000)-( )	SEAL, Cover
27	1650519	1	(00000)-( )	DIFFERENTIAL SUB ASSY., (Includes Item Nos 8, 11, 16 thru 25)



USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209  
UNLESS OTHERWISE NOTED.

Ref. No.	Part No.	Qty.	Serial No.	Description
1	171811	1	(00000)-( )	CABLE, Battery to Ground
2	1663461	1	(00000)-( )	BRACKET
3	122216	1	(00000)-( )	SOLENOID
4	922711	1	(00000)-( )	LOCKWASHER, No. 10
5	917415	1	(00000)-( )	NUT, Hex, No. 10-32
6	917356	2	(00000)-( )	LOCKWASHER, 5/16
7	917372	2	(00000)-( )	NUT, Hex, 5/16-18
8	1651103	1	(00000)-( )	CABLE, Battery to Solenoid
9	172434	2	(00000)-( )	CLIP, Tinnerman
10	1685058	1	(00000)-( )	BATTERY
11	171225	1	(00000)-( )	CLAMP
12	924433	2	(00000)-( )	NUT, Elastic, 5/16-18
13	176912	2	(00000)-( )	CLIP, Wire
14	172175	1	(00000)-( )	GROMMET
15	921958	2	(00000)-( )	CAPSCREW, Hex Hd., 1/4-20 x 1/2
16	916964	2	(00000)-( )	LOCKWASHER, 1/4
17	923747	2	(00000)-( )	TIE, Wrap
18	1657339	1	(00000)-( )	TERMINAL PROTECTOR
19	927428	2	(00000)-( )	SCREW, Tapite, 1/4-20 x 3/8
20	172436	2	(00000)-( )	CLIP, Tinnerman
21	1603195	1	(00000)-( )	CABLE, Solenoid to Start
22	122203	1	(00000)-( )	COVER, Terminal

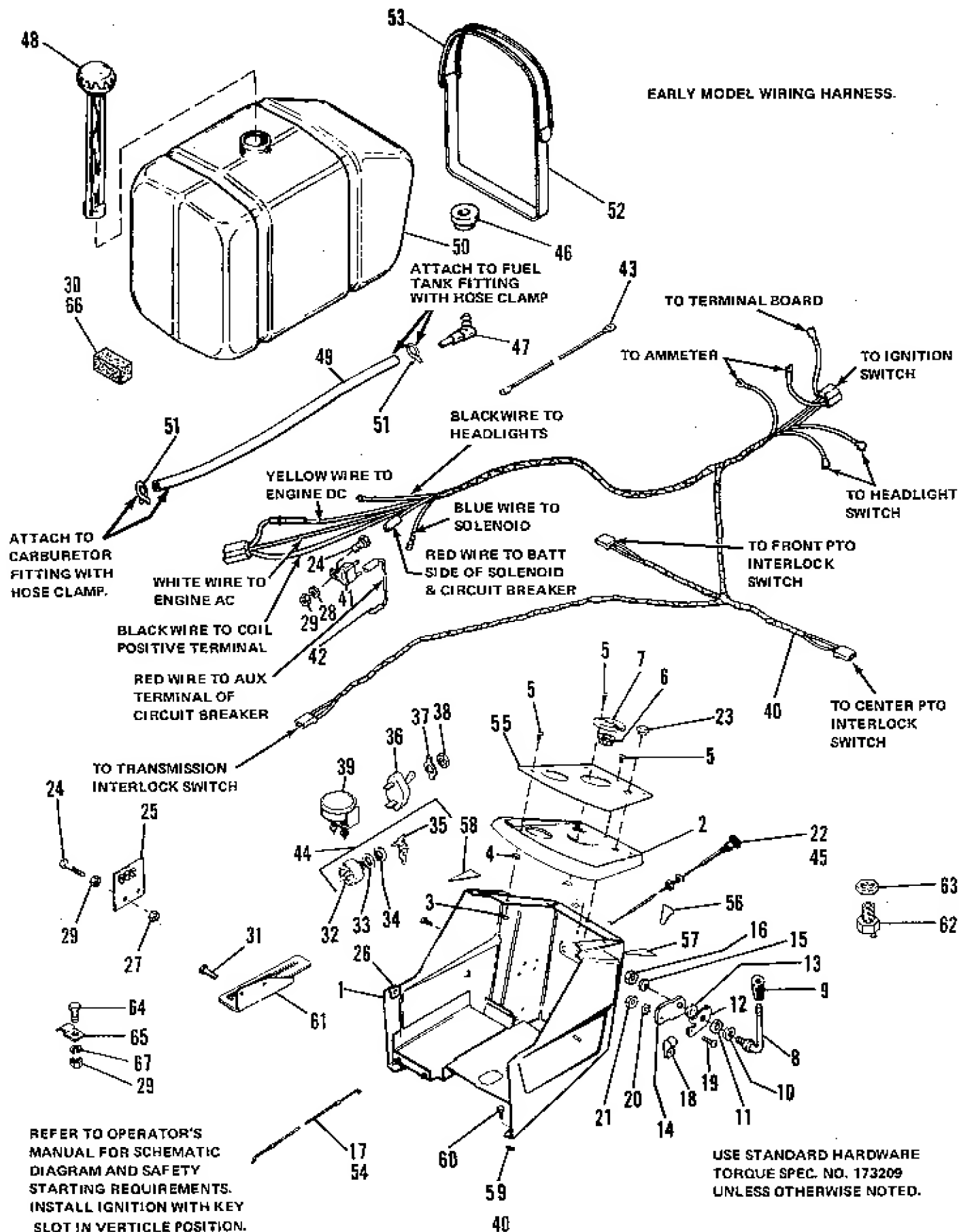




Ref. No.	Part No.	Qty.	Serial No.	Description
1	171811	1	(00000)-( )	CABLE, Battery to Ground
2	925003	2	(00000)-( )	SCREW, Taptite, 1/4-20 x 1/2
3	122216	1	(00000)-( )	SOLENOID
4	922711	1	(00000)-( )	LOCKWASHER, No. 10
5	917415	1	(00000)-( )	NUT, Hex, No. 10-32
6	917356	4	(00000)-( )	LOCKWASHER, 5/16
7	1663316	1	(00000)-( )	CABLE, Battery to Solenoid
8	1603195	1	(00000)-( )	CABLE, Solenoid to Starter
9	1685058	1	(00000)-( )	BATTERY
10	171225	1	(00000)-( )	CLAMP
11	924433	2	(00000)-( )	NUT, Elastic, 5/16-18
12	176912	2	(00000)-( )	CLIP, Wire
13	172175	1	(00000)-( )	GROMMET
14	921332	2	(00000)-( )	CAPSCREW, Hex Hd., 5/16-18 x 3/4
15	172434	2	(00000)-( )	CLIP, Tinnermann
16	172436	2	(00000)-( )	CLIP, Tinnermann
17	1663287	1	(00000)-( )	BRACKET
18	917372	2	(00000)-( )	NUT, Hex
19	1657339	1	(00000)-( )	PROTECTOR, Terminal
20	122023	1	(00000)-( )	COVER, Terminal
21	932747	1	(00000)-( )	TIE, Wrap

**Simplicity**

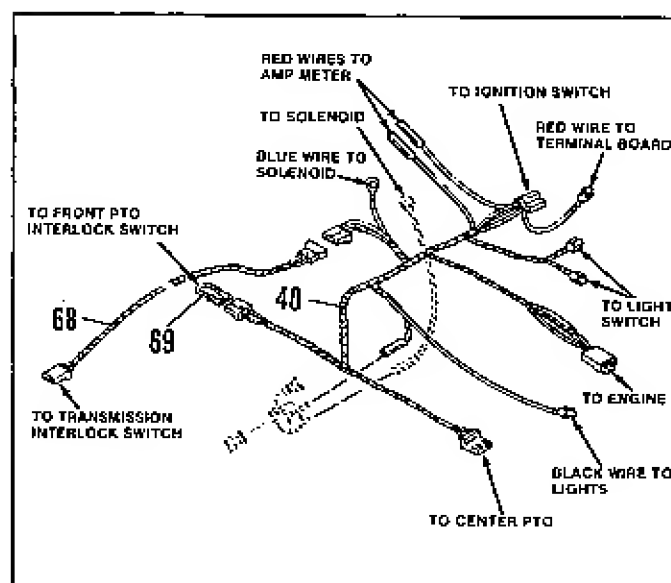
Dash Group (7012 &amp; 7018)

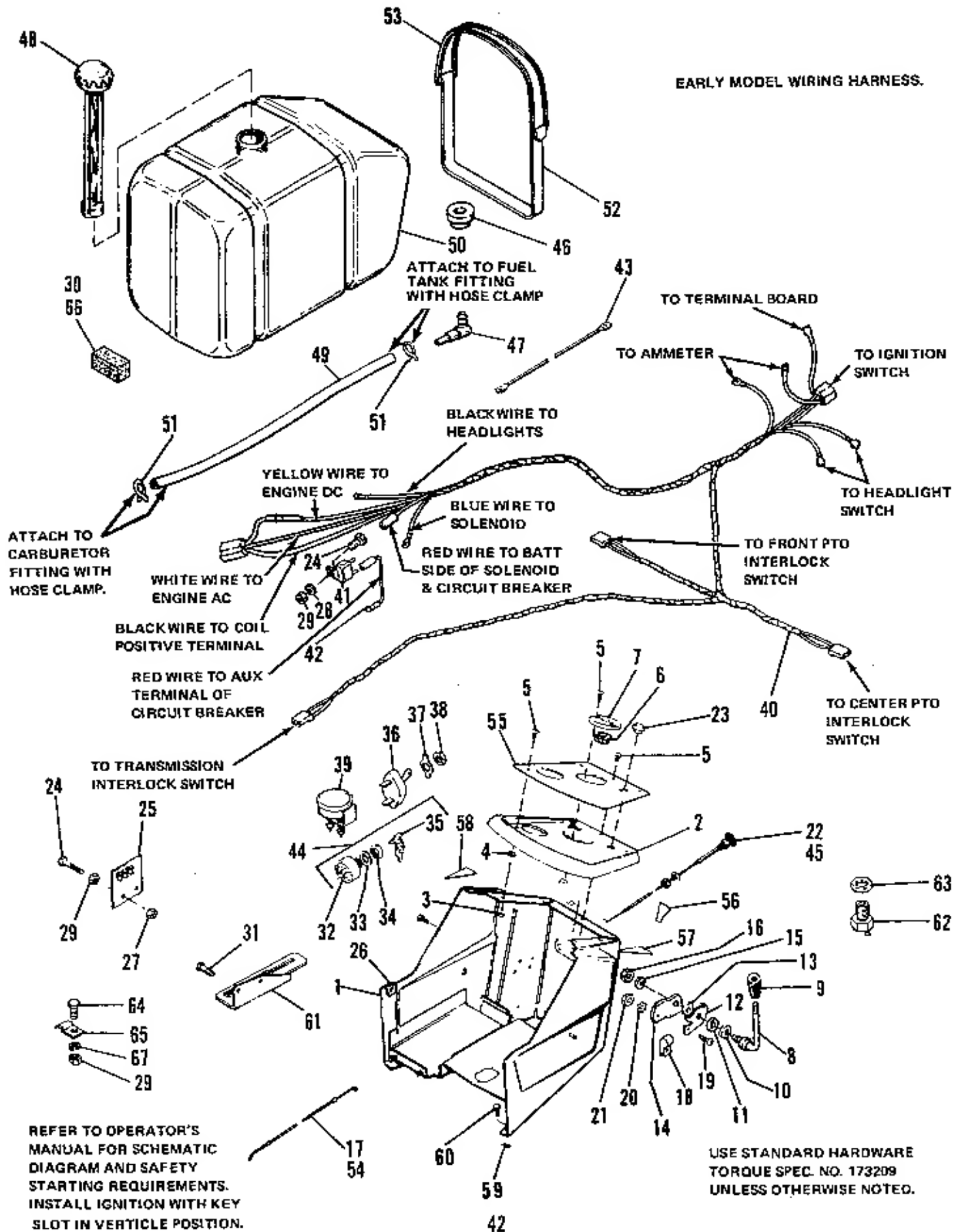


Ref. No.	Part No.	Qty.	Serial No.	Description
1	1665229	1	{00000}-( )	DASH ASSEMBLY
2	1851000	1	{00000}-( )	PANEL, Instrument
3	917867	6	{00000}-( )	NUT, Retainer, Tinn.
4	916955	4	{00000}-( )	WASHER, Plain, 3/16
5	926025	6	{00000}-( )	SCREW, Mach. Rd. Hd., 1/4-20 x 1/2
6	157077	1	{00000}-( )	BUSHING
7	172008	1	{00000}-( )	PLATE STEERING, Adj.
8	1651170	1	{00000}-( )	HANDLE, Clutch Control
9	172038	1	{00000}-( )	KNOB, Tapered
10	101025	1	{00000}-( )	WASHER
11	156116	1	{00000}-( )	WASHER
12	171848	1	{00000}-( )	STOP, Throttle Kit (inc. ref. 10,11)
13	159107	1	{00000}-( )	WASHER
14	158424	1	{00000}-( )	ARM, Throttle
15	930665	1	{00000}-( )	LOCKWASHER, Dished Shakeproof, 3/8
16	930651	1	{00000}-( )	LOCKNUT, Hex, 3/8-16
17	1650998	1	{00000}-( )	CONTROL, Throttle (7012 Only)
18	158475	1	{00000}-( )	CLIP, Bowden Wire
19	930531	1	{00000}-( )	SCREW, Rd. Hd., No. 10-32 x 1/2
20	922711	1	{00000}-( )	LOCKWASHER, External, No. 10
21	917415	1	{00000}-( )	NUT, Mach. Hex, No. 10-32
22	1650997	1	{00000}-( )	CONTROL, Choke (7012 Only)
23	177447	2	{00000}-( )	PLUG, Button
24	921959	3	{00000}-( )	CAPSCREW, Hex Hd., 1/4-20 x 5/8
25	1665230	1	{00000}-( )	BOARD, Terminal
26	930222	1	{00000}-( )	CLIP, Wire
27	923358	2	{00000}-( )	NUT, Lock, Hex, 1/4-20
28	921880	1	{00000}-( )	LOCKWASHER, Shakerproof, 1/4
29	916622	4	{00000}-( )	NUT, Hex, 1/4-20
30	106582	1	{00000}-( )	GASKET, Felt (7018 Only)

NOTE: Parts Ref. No. 31-69 continued on the following page.

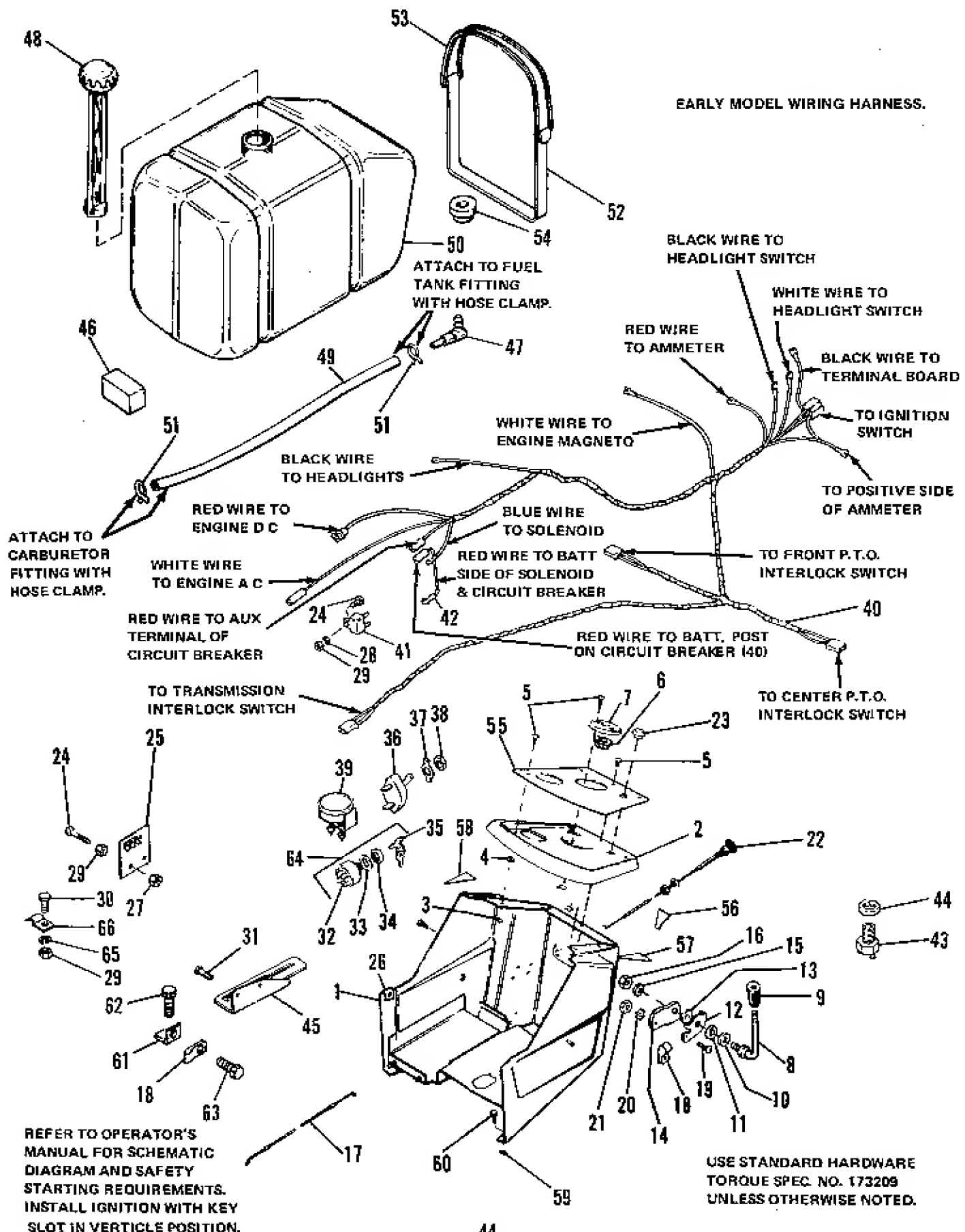
LATER MODEL WIRING HARNESS - 1665231





Ref. No.	Part No.	Qty.	Serial No.	Description
31	931648	2	{00000}-{ }	SCREW, Special
32	1665259	1	{00000}-{ }	SWITCH, Ignition
33	918906	1	{00000}-{ }	LOCKWASHER, Internal, 5/8
34	122235	1	{00000}-{ }	NUT, Hex Special
35	1603249	1	{00000}-{ }	KEY, Set
36	122184	1	{00000}-{ }	SWITCH, Toggle
37		1	{00000}-{ }	PLATE
38		1	{00000}-{ }	NUT
39	1603189	1	{00000}-{ }	AMMETER
40	1663497	1	{00000}-{02562}	HARNESS ASSEMBLY (1690352 Only)
	1665231	1	{02563}-{ }	HARNESS ASSEMBLY (1690352 Only)
	1663497	1	{00000}-{ }	HARNESS ASSEMBLY (1690366 Only)
	1663497	1	{00000}-{01197}	HARNESS ASSEMBLY (1690431 Only)
	1665231	1	{01198}-{ }	HARNESS ASSEMBLY (1690431 Only)
	1663497	1	{00000}-{01043}	HARNESS ASSEMBLY (1690433 Only)
	1665231	1	{01044}-{ }	HARNESS ASSEMBLY (1690433 Only)
41	1665238	1	{00000}-{ }	CIRCUIT BREAKER
42	1665237	1	{00000}-{ }	WIRE ASSEMBLY
43	1651147	1	{00000}-{ }	WIRE ASSEMBLY
44	1607280	1	{00000}-{ }	SWITCH, Key Assy.
	1663386	1	{00000}-{ }	CONTROL, Choke (7018 Only)
46	1654930	1	{00000}-{ }	BUSHING
47	1664460	1	{00000}-{ }	FITTING, Fuel Tank
48	171252	1	{00000}-{ }	CAP, Fuel Tank
49	1664516	1	{00000}-{ }	HOSE, Fuel
50	1664518	1	{00000}-{ }	TANK ASSY, Fuel, Inc. Ref. No's 46, 47, 49 & 51
51	154372	2	{00000}-{ }	CLAMP, Hose
52	171330	2	{00000}-{ }	STRAP, Tank
53	172744	2	{00000}-{ }	STRAP, Fuel Tank
54	1663386	1	{00000}-{ }	CONTROL, Throttle (7018 Only)
55	1651101	1	{00000}-{ }	DECAL, Instrument Panel
56	1657090	1	{00000}-{ }	DECAL, Ignition
57	1664244	1	{00000}-{ }	DECAL, Throttle Control
58	1664240	1	{00000}-{ }	DECAL, Hydrostatic Control
59	928703	7	{00000}-{ }	NUT, Speed, Tinn.
60	930561	10	{00000}-{ }	SCREW, Hex Hd. Thd. Forming, No. 14 x 3/4
61	1650360	1	{00000}-{ }	QUADRANT
62	177522	1	{00000}-{ }	SWITCH, Interlock
63	930647	1	{00000}-{ }	NUT, Pal
64	923341	1	{00000}-{ }	CAPSCREW, Hex, Hd., 1/4-20 x 3/4
65	932771	1	{00000}-{ }	CLIP, Cable
66	173335	1	{00000}-{ }	PAD, Fuel Tank (7012 Only)
67	916964	1	{00000}-{ }	LOCKWASHER, 1/4
68	1665236	1	{00000}-{ }	WIRE ASSY. (Used only w/ Wiring Harness No. 1665231)
69	174702	1	{00000}-{ }	WIRE ASSY. (Used only w/ Wiring Harness No. 1665231)

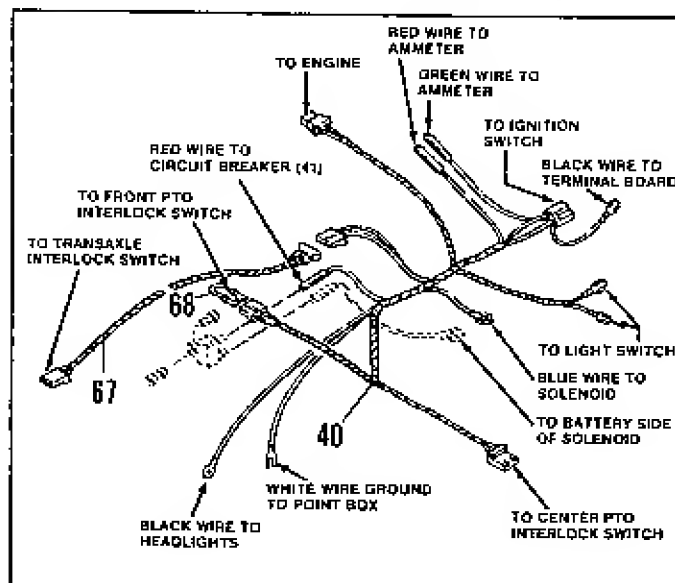
NOTE: Parts Ref. No. 1-30 found on preceding page.



Ref. No.	Part No.	Qty.	Serial No.	Description
1	1665229	1	(00000)-( )	DASH ASSEMBLY
2	1651000	1	(00000)-( )	PANEL, Instrument
3	917867	6	(00000)-( )	NUT, Retainer, Tinn.
4	916955	4	(00000)-( )	WASHER, Plain, 3/16
5	926025	6	(00000)-( )	SCREW, Mach. Rd. Hd., 1/4-20 x 1/2
6	157077	1	(00000)-( )	BUSHING
7	172008	1	(00000)-( )	PLATE STEERING, Adj.
8	1651170	1	(00000)-( )	HANDLE, Clutch Control
9	172038	1	(00000)-( )	KNOB, Tapered
10	101025	1	(00000)-( )	WASHER
11	156116	1	(00000)-( )	WASHER
12	171848	1	(00000)-( )	STOP, Throttle Kit (inc. ref. 10,11)
13	159107	1	(00000)-( )	WASHER
14	158424	1	(00000)-( )	ARM, Throttle
15	930665	1	(00000)-( )	LOCKWASHER, Dished Shakeproof, 3/8
16	930661	1	(00000)-( )	LOCKNUT, Hex, 3/8-16
17	171355	1	(00000)-( )	CONTROL, Throttle
18	158475	2	(00000)-( )	CLIP, Bowden Wire
19	930531	1	(00000)-( )	SCREW, Rd. Hd., No. 10-32 x 1/2
20	922711	1	(00000)-( )	LOCKWASHER, External, No. 10
21	917415	1	(00000)-( )	NUT, Mach. Hex, No. 10-32
22	1650997	1	(00000)-( )	CONTROL, Choke
23	177447	2	(00000)-( )	PLUG, Button
24	921959	3	(00000)-( )	CAPSCREW, Hex Hd., 1/4-20 x 5/8
25	1665230	1	(00000)-( )	BOARD, Terminal
26	930222	1	(00000)-( )	CLIP, Wire
27	923358	2	(00000)-( )	NUT, Lock, Hex, 1/4-20
28	921880	1	(00000)-( )	LOCKWASHER, Shakerproof, 1/4
29	916622	4	(00000)-( )	NUT, Hex, 1/4-20
30	923341	1	(00000)-( )	SCREW, Hex Cap, 1/4-20 x 3/4

NOTE: Parts Ref. No. 31-68 continued on the following page.

LATER MODEL WIRING HARNESS - 1665239

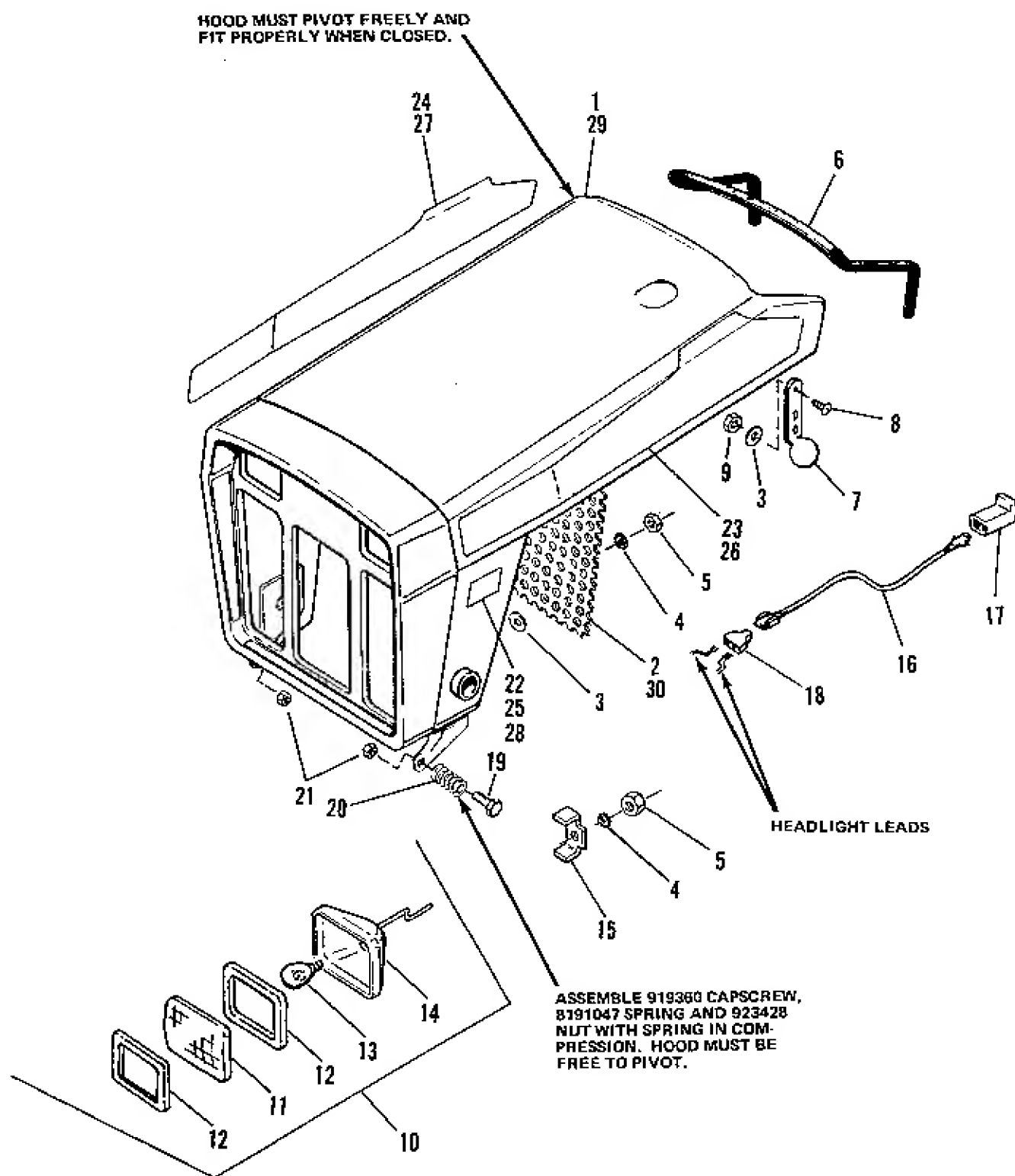






Ref. No.	Part No.	Qty.	Serial No.	Description
31	931648	2	(00000)-( )	SCREW, Special
32	1665250	1	(00000)-( )	SWITCH, Ignition
33	918906	1	(00000)-( )	LOCKWASHER, Internal, 5/8
34	122234	1	(00000)-( )	NUT, Hex Special
35	122203	1	(00000)-( )	KEY & RING ASSEMBLY
36	122184	1	(00000)-( )	SWITCH, Toggle
37		1	(00000)-( )	PLATE
38		1	(00000)-( )	NUT
39	1803189	1	(00000)-( )	AMMETER
40	1663253	1	(00000)-( )	HARNESS ASSEMBLY (1690342 Only)
	1663253	1	(00000)-(01356)	HARNESS ASSEMBLY (1690427 Only)
	1665239	1	(01357)-( )	HARNESS ASSEMBLY (1690427 Only)
	1663253	1	(00000)-(01014)	HARNESS ASSEMBLY (1690429 Only)
	1665239	1	(01015)-( )	HARNESS ASSEMBLY (1690429 Only)
41	1665238	1	(00000)-( )	CIRCUIT BREAKER
42	1665237	1	(00000)-( )	WIRE ASSEMBLY
43	177522	1	(00000)-( )	SWITCH, Interlock
44	930647	1	(00000)-( )	NUT, Pl
45	1650360	1	(00000)-( )	QUADRANT
46	173335	1	(00000)-( )	PAD, Fuel Tank
47	1664460	1	(00000)-( )	FITTING, Gas Tank
48	171252	1	(00000)-( )	CAP, Fuel Tank
49	1664516	1	(00000)-( )	HOSE, Fuel
50	1664517	1	(00000)-( )	TANK ASSY, Fuel, Inc. Ref No's. 47,49,51, & 54
51	154372	2	(00000)-( )	CLAMP, Hose
52	171330	2	(00000)-( )	STRAP, Tank
53	172744	2	(00000)-( )	STRAP, Fuel Tank
54	1654930	1	(00000)-( )	BUSHING
55	1651101	1	(00000)-( )	DECAL, Instrument Panel
56	1657090	1	(00000)-( )	DECAL, Ignition
57	1664244	1	(00000)-( )	DECAL, Throttle Control
58	1664240	1	(00000)-( )	DECAL, Hydrostatic Control
59	928703	7	(00000)-( )	NUT, Speed, Tinn.
60	930561	10	(00000)-( )	SCREW, Hex Hd. Thd. Forming, No. 14 x 3/4
61	1656453	1	(00000)-( )	BRACKET, Cable
62	927429	1	(00000)-( )	SCREW, Hex Hd., 1/4-20 x 5/8
63	929477	1	(00000)-( )	SCREW, Tapita, No. 10-24 x 1/2
64	178280	1	(00000)-( )	SWITCH, Key Assy.
65	918964	1	(00000)-( )	LOCKWASHER, 1/4
66	932771	1	(00000)-( )	CLIP, Cable
67	1665236	1	(00000)-( )	WIRE ASSY. (Used only with Wiring Harness No. 1665239)
68	174702	1	(00000)-( )	WIRE ASSY. (Used only with Wiring Harness No. 1665239)

NOTE: Parts Ref. No. 1-30 found on preceding page.



USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209  
UNLESS OTHERWISE NOTED.

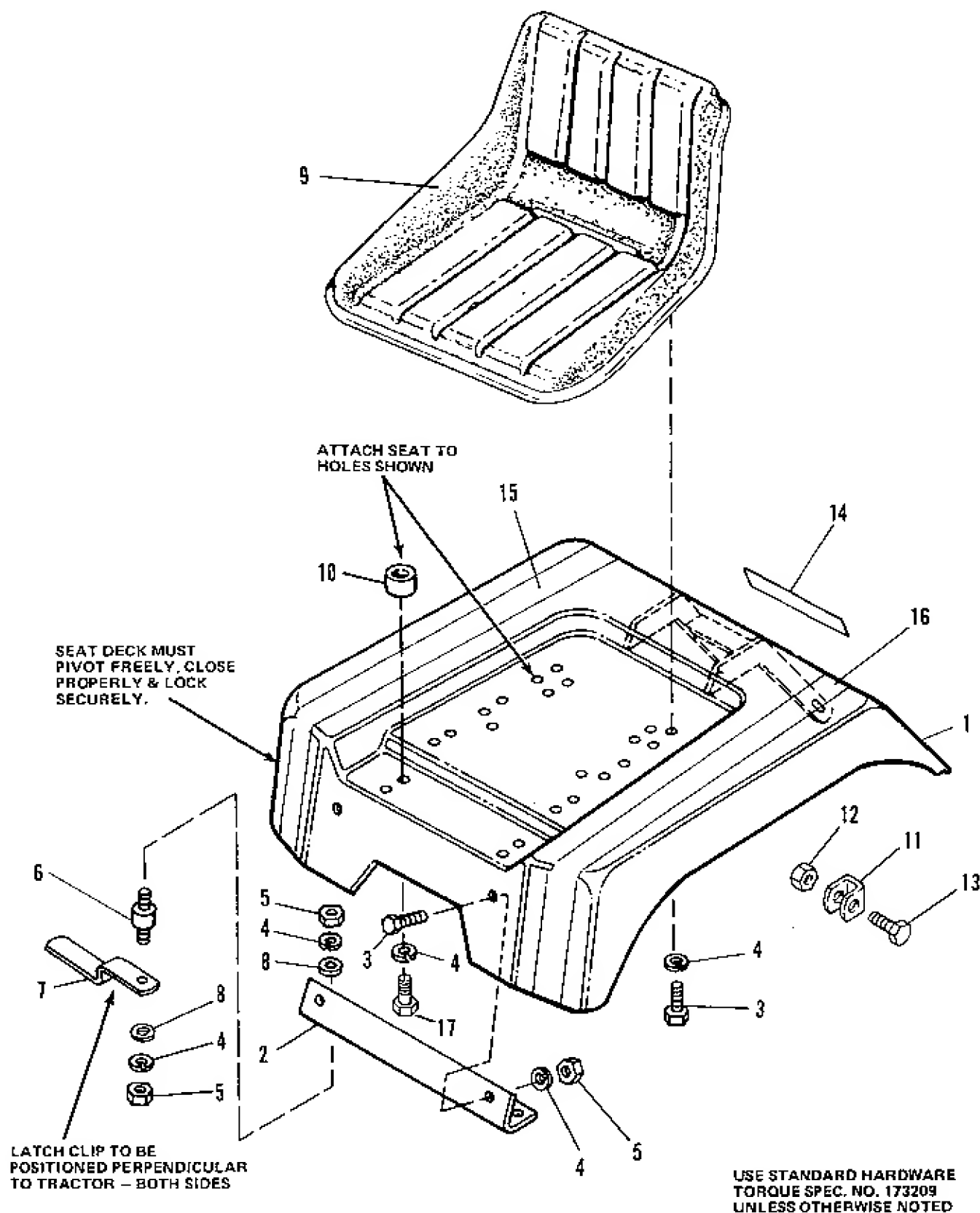
Mfg. No. 1690342, 1690352, 1690366, 1690427, 1690429, 1690431, & 1690433.

*Hood & Lights Group (7012, 7016 & 7018)*

**Simplicity**

10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	1656400	1	(00000)-( )	HOOD & GRILLE ASSY (7012 & 7016 Only)
2	1656587	1	(00000)-( )	SCREEN, Grille (7012 & 7016 Only)
3	171804	6	(00000)-( )	WASHER, Special
4	922711	8	(00000)-( )	LOCKWASHER, Ext. Tooth, No. 10
5	916621	8	(00000)-( )	NUT, Hex, Mach., No. 10-24
6	172935	1	(00000)-( )	MOULDING, Hood
7	171500	2	(00000)-( )	STRAP, Hood
8	930531	2	(00000)-( )	SCREW, Truss Hd., No. 10-32 x 1/2
9	930627	2	(00000)-( )	LOCKNUT, Hex, No. 10-32
10	1656935	2	(00000)-( )	LIGHT ASSY
11	1656933	1	(00000)-( )	LENS
12	1654662	2	(00000)-( )	GASKET
13		1	(00000)-( )	BULB, No. 1293
14	1654664	1	(00000)-( )	SOCKET
15	1656881	4	(00000)-( )	CLIP
16	1657047	1	(00000)-( )	WIRE ASSY
17	172100	1	(00000)-( )	BODY, Connector
18	122182	1	(00000)-( )	CONNECTOR, Insulated
19	921969	2	(00000)-( )	CAPSCREW, Hex,Hd., 3/8-16 x 1-1/2
20	8191047	2	(00000)-( )	SPRING
21	930651	2	(00000)-( )	NUT, Hex, 3/8-16
22	1663289	2	(00000)-( )	DECAL, 7012 Hydrostatic
23	1657113	1	(00000)-( )	DECAL, Hood, Landford, L.H. (7012 Only)
24	1657112	1	(00000)-( )	DECAL, Hood, Landford, R.H. (7012 Only)
25	1657146	1	(00000)-( )	DECAL, 7016 Hydrostatic
26	1657117	1	(00000)-( )	DECAL, L.H. Hood, Sovereign (7016 Only)
27	1657116	1	(00000)-( )	DECAL, R.H. Hood, Sovereign (7016 Only)
28	1664365	2	(00000)-( )	DECAL, 7018 Hydrostatic
29	1663988	1	(00000)-( )	HOOD & GRILLE ASSY (7018 Only)
30	1664860	1	(00000)-( )	SCREEN, Grille (7018 Only)

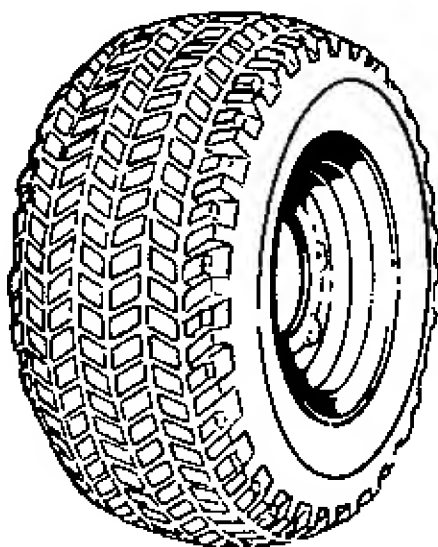
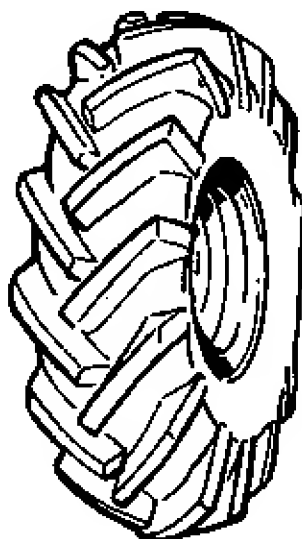


## Seat &amp; Deck Group (7012, 7016 &amp; 7018)

**Simplicity**

10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	166111	1	(00000)-( )	SEAT, Deck
2	164029	1	(00000)-( )	BRACKET, Frt. Seat Deck
3	925205	4	(00000)-( )	CAPSCREW, 5/16-18 x 5/8
4	917356	10	(00000)-( )	LOCKWASHER, 5/16
5	917372	6	(00000)-( )	NUT, Hex, Full, 5/16-18
6	157094	2	(00000)-( )	CONNECTOR, Cushion
7	1606823	2	(00000)-( )	CLIP
8	917377	4	(00000)-( )	WASHER, 1/4
9	1657309	1	(00000)-( )	SEAT
10	106132	2	(00000)-( )	SPACER
11	1607870	1	(00000)-( )	STOP, Seat Deck
12	930651	2	(00000)-( )	LOCKNUT, Hex, 3/8-16
13	920415	2	(00000)-( )	CAPSCREW, Hex, 3/8-16 x 1-1/4
14	153166	1	(00000)-( )	DECAL, Simplicity
15	1657282	1	(00000)-( )	DECAL, Stripe, R.H.
16	1657283	1	(00000)-( )	DECAL, Stripe, L.H.
17	921977	2	(00000)-( )	CAPSCREW, Hex Hd., 5/16-18 x 1 1/4



Mfg. No. 1690304

Tire & Rim Group (Ag. Tread)

**Simplicity**

1-78

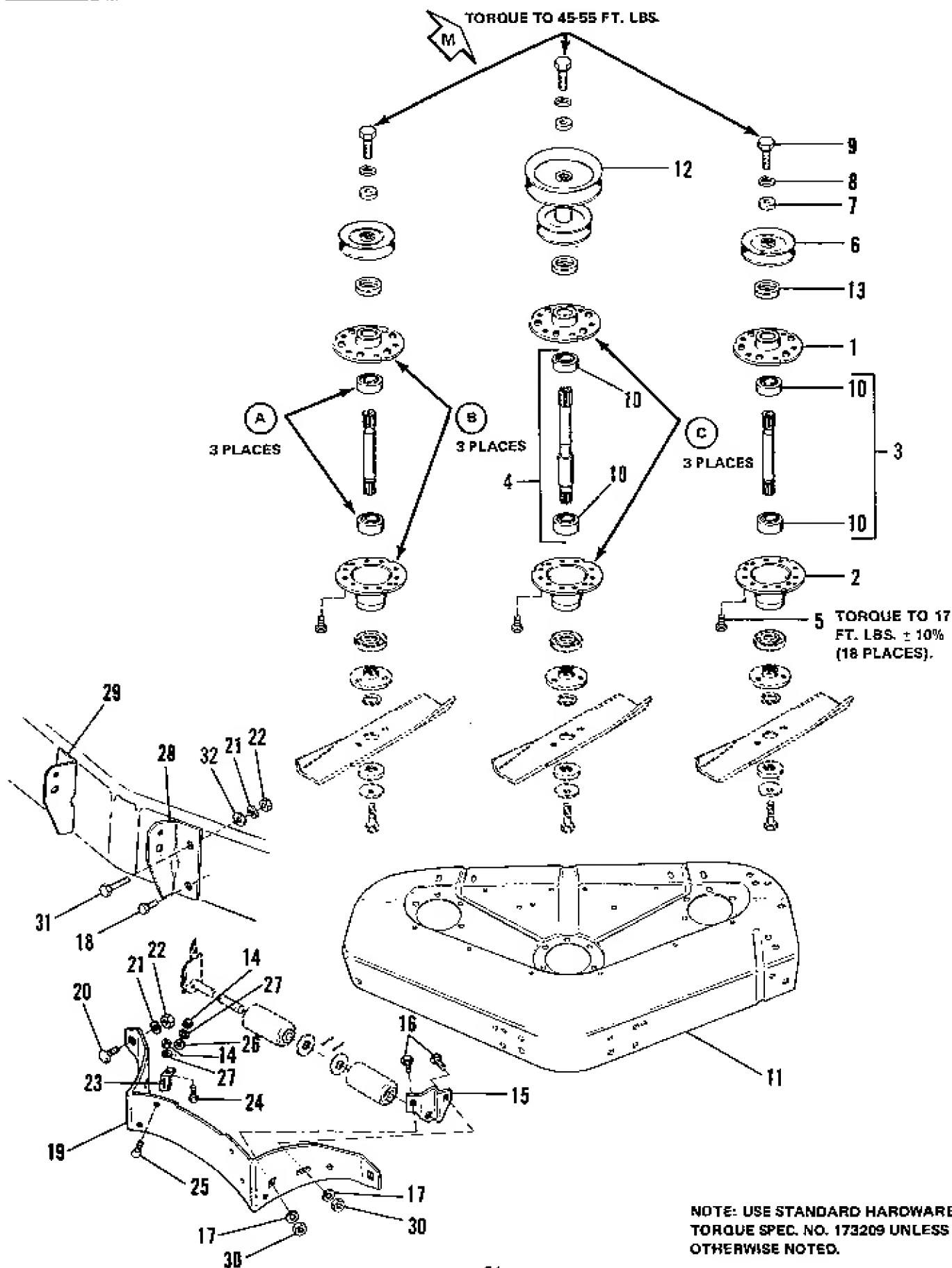
Part No.	Qty.	Serial No.	Description
1657752	1	(00000)-( )	WHEEL & TIRE ASSY, R.H. 23 x 10-1/2 - 12
1657694	2	(00000)-( )	TIRE, 23 x 10-1/2 - 12, Goodyear
157638	2	(00000)-( )	TUBE
172353	2	(00000)-( )	STEM & VALVE CAP
173430	2	(00000)-( )	WHEEL
1657753	1	(00000)-( )	WHEEL & TIRE ASSY, L.H. 23 x 10-1/2 - 12

Mfg. No. 1690319

Tire & Rim Group (Turf Tread)

1-78

Part No.	Qty.	Serial No.	Description
173432	2	(00000)-( )	WHEEL & TIRE ASSY, 23 x 10-1/2 - 12
1605967	2	(00000)-( )	TIRE, 23 x 10-1/2 - 12, Carlisle
1664215			TIRE, 23 x 10-1/2 - 12, Firestone
157638	2	(00000)-( )	TUBE
172353	2	(00000)-( )	STEM & VALVE CAP
173430	2	(00000)-( )	WHEEL

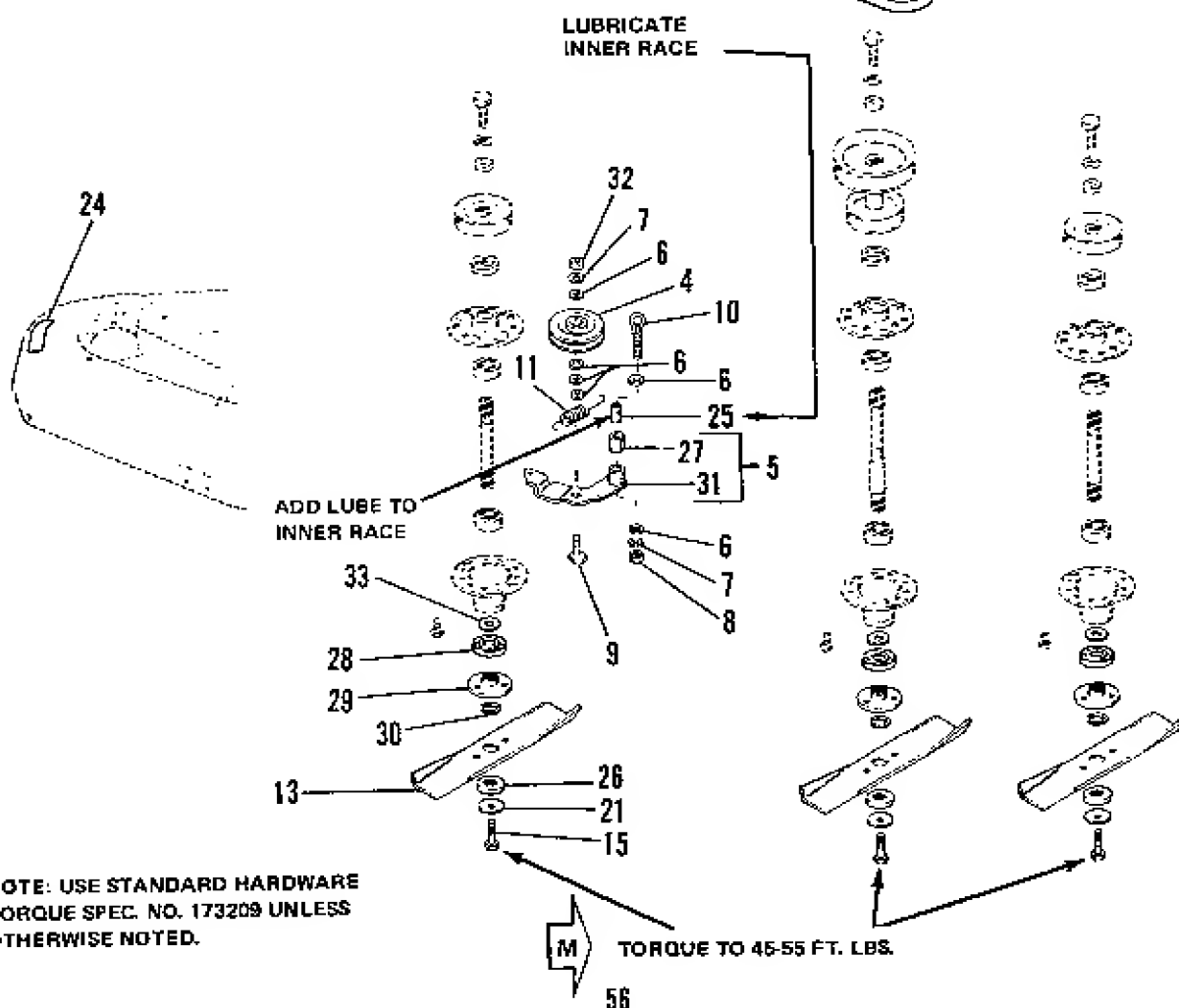
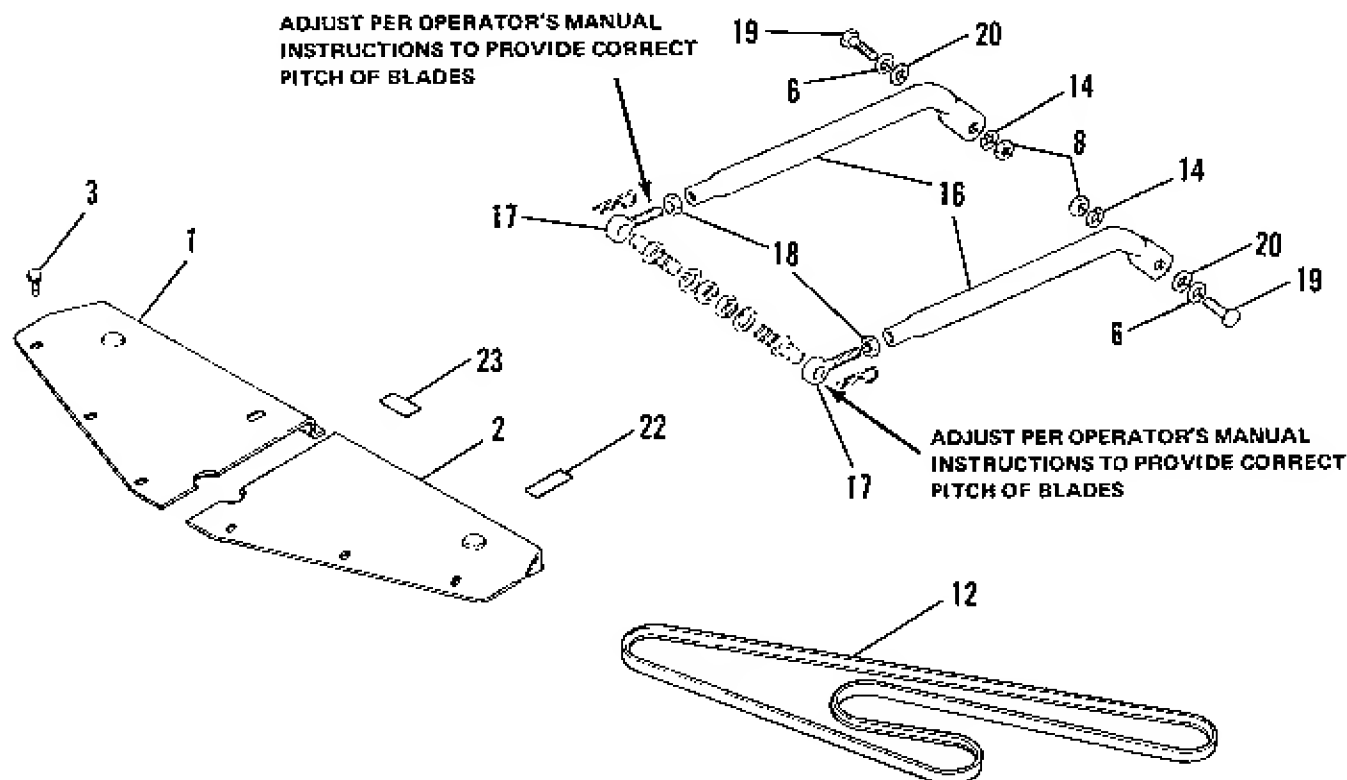




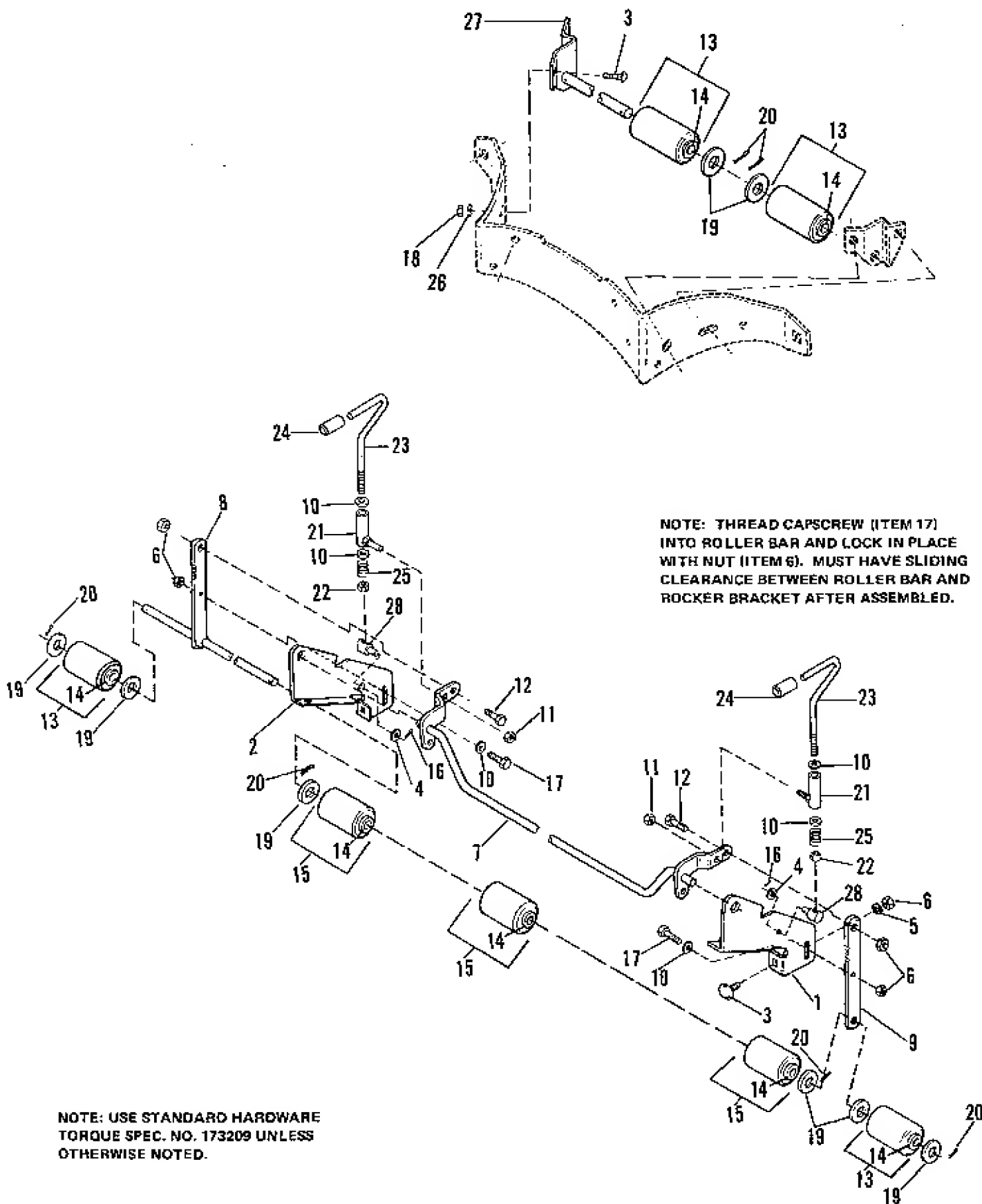
Ref. No.	Part No.	Qty.	Serial No.	Description
1	1655729	3	{00000}-{ }	HOUSING, Top
2	1655728	3	{00000}-{ }	HOUSING, Bottom
3	1663336	2	{00000}-{ }	SHAFT & BEARING ASSY
4	1663337	1	{00000}-{ }	SHAFT & BEARING ASSY, Center
5	1664847	18	{00000}-{ }	SCREW, Hex Whsr. Hd., 5/16 x 5/8
6	1665867	2	{00000}-{ }	PULLEY ASSY, Deck Drive
7	933263	3	{00000}-{ }	WASHER
8	918199	3	{00000}-{ }	LOCKWASHER, 7/16
9	920677	3	{00000}-{ }	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4
10	108202	6	{00000}-{ }	BEARING
11	1685104	1	{00000}-{ }	HOUSING, 42" Safety Kit
12	1658929	1	{00000}-{ }	PULLEY ASSY
13	1657969	3	{00000}-{ }	SHIELD, Bearing Upper
14	916622	4	{00000}-{ }	NUT, Hex, Full, 1/4-20
15	108224	1	{00000}-{ }	BRACKET, Roller, L.H.
16	920562	2	{00000}-{ }	BOLT, Carriage, 5/16-18 x 3/4
17	917356	2	{00000}-{ }	LOCKWASHER, 5/16
18	921965	2	{00000}-{ }	CAPSCREW, Hex Hd., 3/8-16 x 3/4
19	108361	1	{00000}-{ }	BAFFLE
20	922110	2	{00000}-{ }	BOLT, Carriage, 3/8-16 x 3/4
21	916965	6	{00000}-{ }	LOCKWASHER, 3/8
22	916950	6	{00000}-{ }	NUT, Hex, Full, 3/8-16
23	108186	2	{00000}-{ }	CLIP, Baffle
24	922125	2	{00000}-{ }	SCREW, Thd. Cutting, 1/4-20 x 7/8
25	921959	2	{00000}-{ }	CAPSCREW, Hex Hd., 1/4-20 x 5/8
26	917377	2	{00000}-{ }	WASHER, Plain, 1/4
27	916964	4	{00000}-{ }	LOCKWASHER, 1/4
28	1651499	1	{00000}-{ }	BRACKET, L.H.
29	1651500	1	{00000}-{ }	BRACKET, R.H.
30	917372	2	{00000}-{ }	NUT, Hex, Full, 5/16-18
31	921210	2	{00000}-{ }	CAPSCREW, Hex Hd. 3/8 - 16 x 1
32	924356	2	{00000}-{ }	WASHER, 13/32

**ASSEMBLY PROCEDURES****42" Mower (Housing & Arbor Group)**

- A. Press (2) bearings (item 10) with land riding seal facing up over shafts (items 3 & 4) using pressure only on the inner race of the bearing.
- B. Assemble upper and lower arbor housings (items 1 & 2) over bearings. Must be careful that housings do not cock on bearings. When upper and lower housing flanges come together proper alignment of holes in housing flanges is accomplished by aligning knockouts in lower housing flange with mating holes in upper housing flange. Also half holes in outer edge must match.
- C. Seal between flanges of upper arbor housing and lower arbor housing with 1651180 gasket eliminator. Remove contaminants such as grease, heavy oils and dirt from flange surfaces before assembly. Avoid lateral movement between flange surfaces during assembly.



Ref. No.	Part No.	Qty.	Serial No.	Description
1	1656953	1	(00000)-( )	COVER, R.H.
2	1656954	1	(00000)-( )	COVER, L.H.
3	929000	10	(00000)-( )	SCREW, Hex, Taptite, 1/4-20 x 3/8
4	164268	1	(00000)-( )	PULLEY, Idler
5	1657684	1	(00000)-( )	LEVER ASSY, Idler (w/Bushings)
6	917642	8	(00000)-( )	WASHER, Plain, 5/16
7	916966	4	(00000)-( )	LOCKWASHER, 3/8
8	916950	3	(00000)-( )	NUT, Hex, Full, 3/8-16
9	108418	1	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
10	171815	1	(00000)-( )	EYEBOLT
11	1656936	1	(00000)-( )	SPRING
12	1656960	1	(00000)-( )	BELT, V, Arbor Drive
13	1656144	3	(00000)-( )	BLADE, 42" Mower
14	916966	2	(00000)-( )	LOCKWASHER, 1/2
15	920676	3	(00000)-( )	CAPSCREW, Hex Hd., 7/16-14 x 1
16	1651520	2	(00000)-( )	ARM, Adjusting
17	157215	2	(00000)-( )	EYEBOLT
18	919262	2	(00000)-( )	NUT, Hex, Jam, 1/2-20
19	907731	2	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1
20	108717	2	(00000)-( )	SPACER
21	1656916	3	(00000)-( )	WASHER, Spring
22	1656857	1	(00000)-( )	DECAL, Danger
23	174845	1	(00000)-( )	DECAL, Belt Installation
24	1656856	1	(00000)-( )	DECAL, Danger
25	8171073	1	(00000)-( )	RACE, Inner
26	1656927	3	(00000)-( )	WASHER, Spline
27	1657682	1	(00000)-( )	BUSHING
28	1657688	3	(00000)-( )	SHIELD, Grass
29	1655777	3	(00000)-( )	ADAPTOR, Blade
30	1657528	3	(00000)-( )	RING, Self Locking
31	1656962	1	(00000)-( )	LEVER ASSY, Idler
32	917421	1	(00000)-( )	NUT, Hex, Jam, 3/8-16
33	1664241	3	(00000)-( )	WASHER, Shim

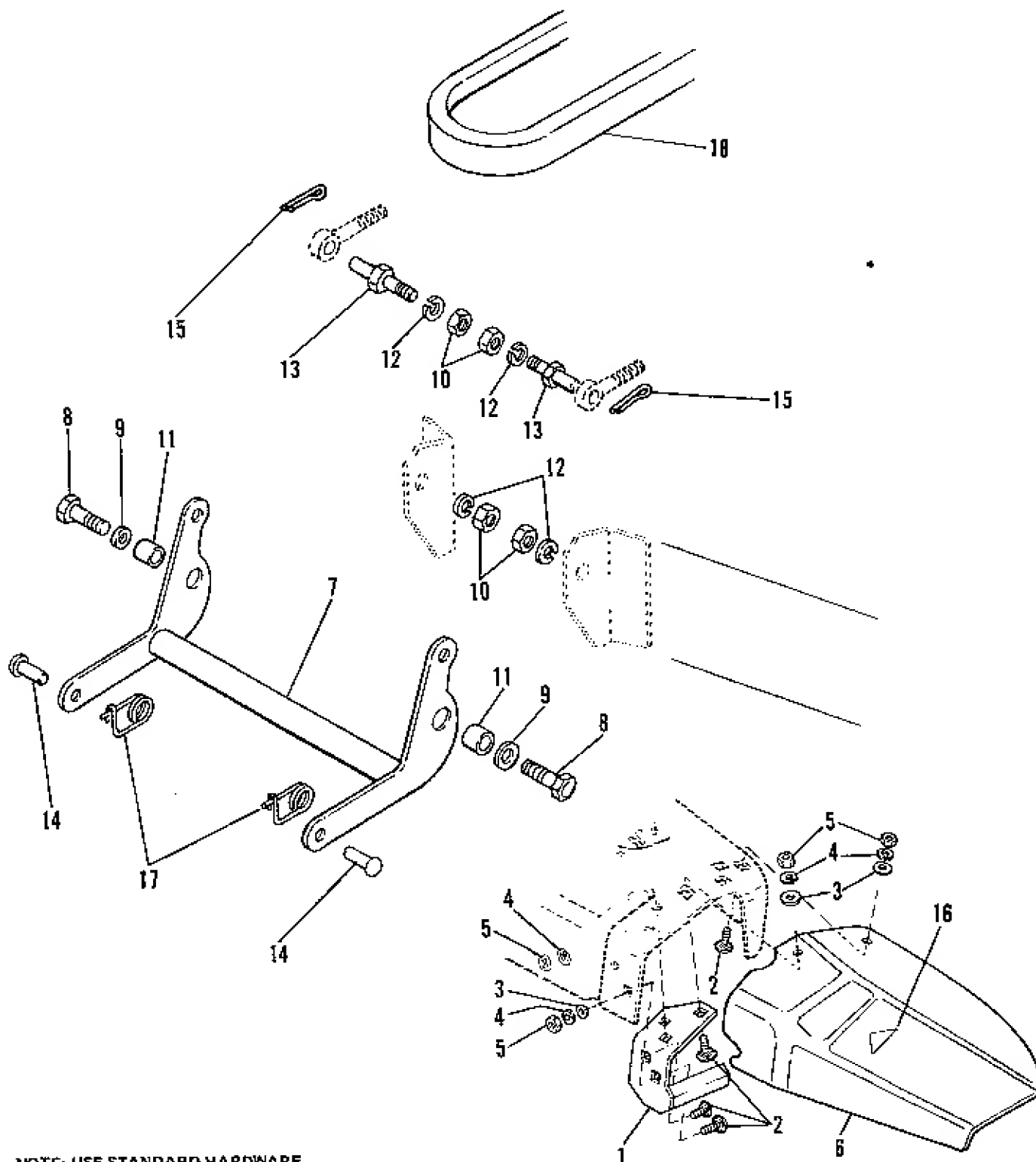


## 42" Height Adjusting &amp; Roller Group

**Simplicity**

10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	172044	1	(00000)-( )	BRACKET, Roller, L.H.
2	172045	1	(00000)-( )	BRACKET, Roller, R.H.
3	920562	8	(00000)-( )	BOLT, Carriage, 3/8-16 x 3/4
4	924940	2	(00000)-( )	WASHER, Plain, 5/16
5	916965	4	(00000)-( )	LOCKWASHER, 3/8
6	916950	8	(00000)-( )	NUT, Hex, Full, 3/8-16
7	1651514	1	(00000)-( )	ROCKER ARM ASSY
8	1657894	1	(00000)-( )	SHAFT ASSY, Roller
9	1657893	1	(00000)-( )	BAR, Roller
10	917378	6	(00000)-( )	WASHER, Plain, 3/8
11	930561	2	(00000)-( )	NUT, Hex, Full Lock, 3/8-16
12	907731	2	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1
13	108431	4	(00000)-( )	ROLLER ASSY
14	108419	14	(00000)-( )	BUSHING
15	108432	3	(00000)-( )	ROLLER ASSY
16	922000	2	(00000)-( )	PIN, Cotter, 3/32 x 5/8
17	925204	2	(00000)-( )	CAPSCREW, Hex hd., 3/8-16 x 1
18	917372	2	(00000)-( )	NUT, Hex, Full, 5/16-18
19	919387	8	(00000)-( )	WASHER, Plain, 5/8
20	918458	6	(00000)-( )	PIN, Cotter, 3/16 x 1
21	108241	2	(00000)-( )	SOCKET ASSY
22	917421	2	(00000)-( )	NUT, Hex, Jam, 3/8-16
23	1650394	2	(00000)-( )	HANDLE, Adjusting
24	1651820	2	(00000)-( )	GRIP
25	108360	2	(00000)-( )	SPRING
26	917356	2	(00000)-( )	LOCKWASHER, 5/16
27	108426	1	(00000)-( )	BRACKET & SHAFT ASSY
28	108512	2	(00000)-( )	PIVOT



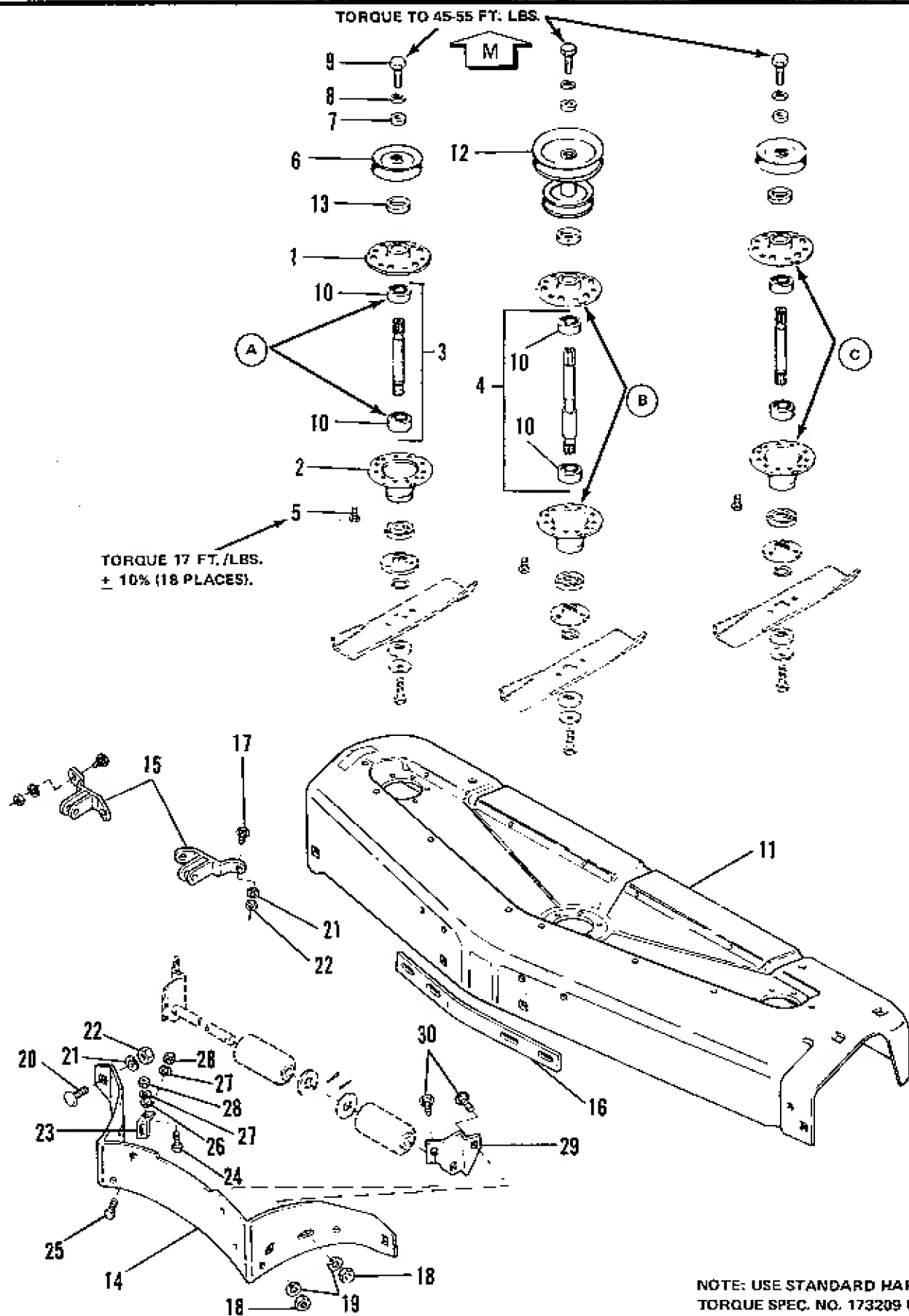
NOTE: USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209 UNLESS  
OTHERWISE NOTED.

## 42" Deflector, Stone Guard &amp; Rocker Arm Group

**Simplicity**

10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	174167	1	(00000)-( )	GUARD ASSY, Stone
2	922109	4	(00000)-( )	BOLT, Carriage, 3/8-16 x 1-1/4
3	8161199	3	(00000)-( )	WASHER, Special
4	916965	4	(00000)-( )	LOCKWASHER, 3/8
5	916950	4	(00000)-( )	NUT, Hex, Full, 3/8-16
6	1651177	1	(00000)-( )	DEFLECTOR
7	172468	1	(00000)-( )	ROCKER ARM ASSY
8	921176	2	(00000)-( )	CAPSCREW, Hex Hd., 1/2-13 x 1-1/4
9	918430	2	(00000)-( )	WASHER, Plain, 7/16
10	916951	4	(00000)-( )	NUT, Hex, Full, 1/2-13
11	105051	2	(00000)-( )	SPACER
12	916966	4	(00000)-( )	LOCKWASHER, 1/2
13	1651516	2	(00000)-( )	PIN, Pivot
14	118053	2	(00000)-( )	PIN
15	918452	2	(00000)-( )	PIN, Cotter, 1/8 x 1
16		1	(00000)-( )	DECAL, Ope
17	176012	2	(00000)-( )	PIN, Clip
18	176439	1	(00000)-( )	BELT, V, PTO to Mower



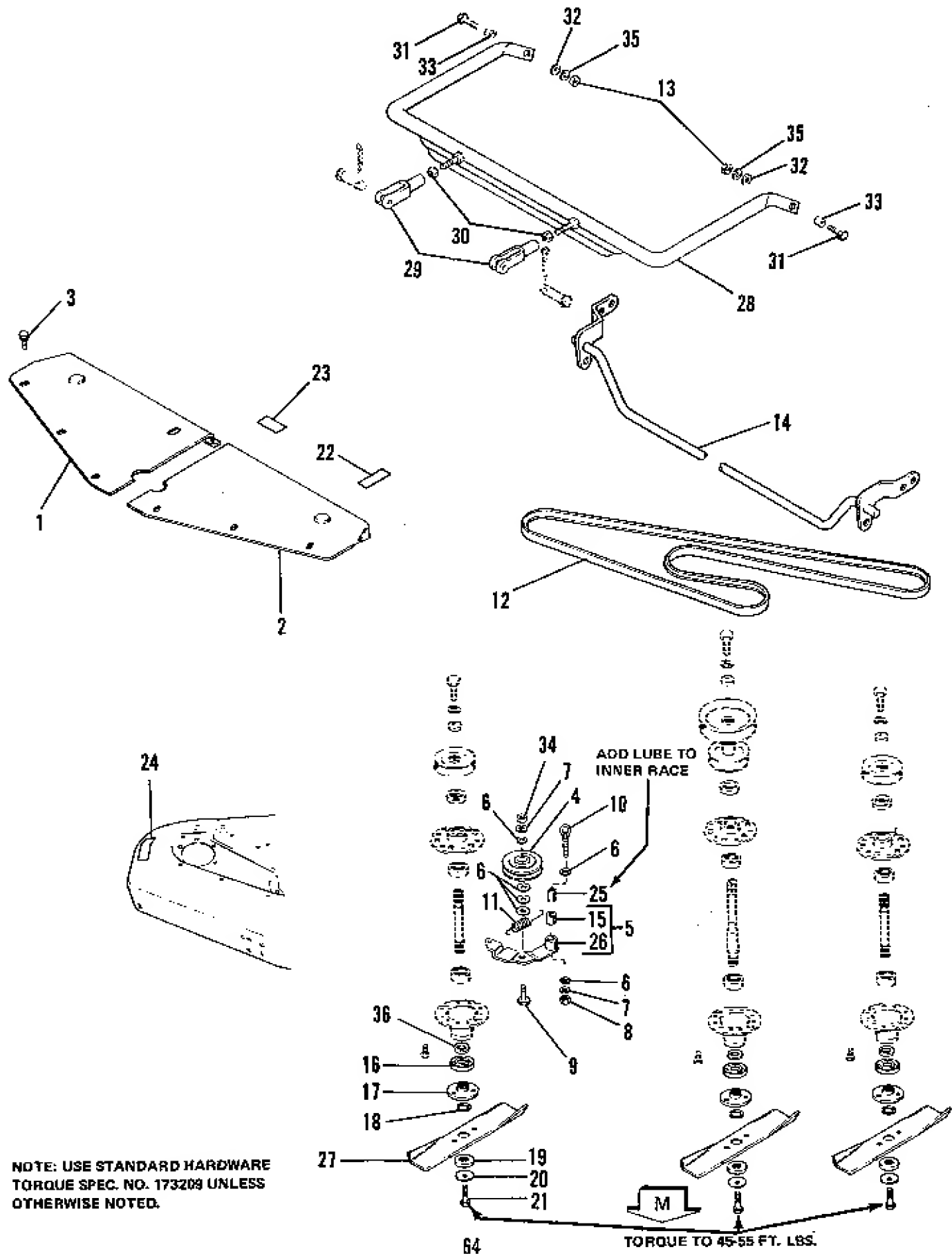


Ref. No.	Part No.	Qty.	Serial No.	Description
1	1655729	3	{00000}-{ }	HOUSING, Top
2	1655728	3	{00000}-{ }	HOUSING, Bottom
3	1663336	2	{00000}-{ }	SHAFT & BEARING ASSY
4	1663337	1	{00000}-{ }	SHAFT & BEARING ASSY, Center
5	1664847	18	{00000}-{ }	SCREW, Hex Wshr. Hd., 5/16 x 5/8
6	1655867	2	{00000}-{ }	PULLEY ASSY, Deck Drive
7	933263	3	{00000}-{ }	WASHER
8	918199	3	{00000}-{ }	LOCKWASHER, 7/16
9	920677	3	{00000}-{ }	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4
10	108202	6	{00000}-{ }	BEARING
11	1685105	1	{00000}-{ }	HOUSING, 48" Safety Kit
12	1656928	1	{00000}-{ }	PULLEY ASSY
13	1657969	3	{00000}-{ }	SHIELD, Bearing, Upper
14	108453	1	{00000}-{ }	BAFFLE
15	108219	2	{00000}-{ }	BRACKET ASSY, Front
16	108366	1	{00000}-{ }	BAR, Reinforcement
17	923232	4	{00000}-{ }	BOLT, Carriage, 3/8-16 x 1
18	917372	2	{00000}-{ }	NUT, Hex, Full, 5/16-18
19	917356	2	{00000}-{ }	LOCKWASHER, 5/16
20	922110	2	{00000}-{ }	BOLT, Carriage, 3/8-16 x 3/4
21	916965	6	{00000}-{ }	LOCKWASHER, 3/8
22	916950	6	{00000}-{ }	NUT, Hex, Full, 3/8-16
23	108186	2	{00000}-{ }	CLIP, Baffle
24	922126	2	{00000}-{ }	SCREW, Thd. Forming, 1/4-20 x 7/8
25	921959	2	{00000}-{ }	CAPSCREW, Hex Hd., 1/4-20 x 5/8
26	917377	2	{00000}-{ }	WASHER, Plain, 1/4
27	916964	4	{00000}-{ }	LOCKWASHER, 1/4
28	916822	4	{00000}-{ }	NUT, Hex, Full, 1/4-20
29	108224	1	{00000}-{ }	BRACKET, Roller, L.H.
30	920562	2	{00000}-{ }	BOLT, Carriage, 5/16-18 x 3/4

### ASSEMBLY PROCEDURE

#### 48" Mower (Housing & Arbor Group)

- A. Press (2) bearings (item 10) with land riding seal facing up over shaft (items 3 & 4) using pressure only on the inner race of the bearing.
- B. Assemble upper and lower arbor housings (items 1 & 2) over bearings. Must be careful that housings do not cock on bearings. When upper and lower housing flanges come together proper alignment of holes in housing flanges is accomplished by aligning knockouts in lower housing flange with mating holes in upper housing flange. Also half holes in outer edge must match.
- C. Seal between flanges of upper arbor housing and lower arbor housing with 1651180 gasket eliminator. Remove contaminants, such as grease, heavy oil and dirt from flange surfaces before assembly. Avoid lateral movement between flange surfaces during assembly.

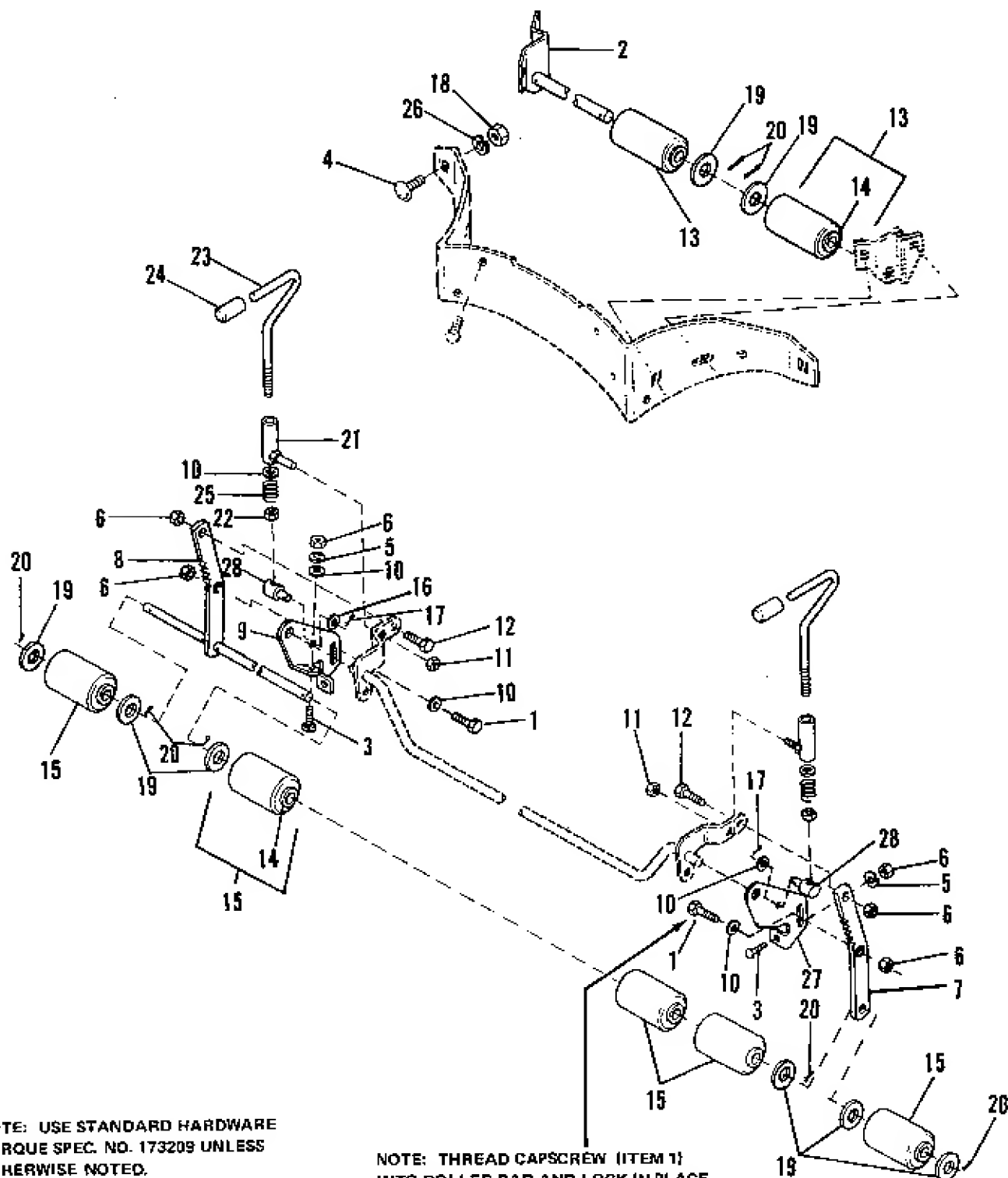


## 48" Cover, Drive &amp; Bail Group

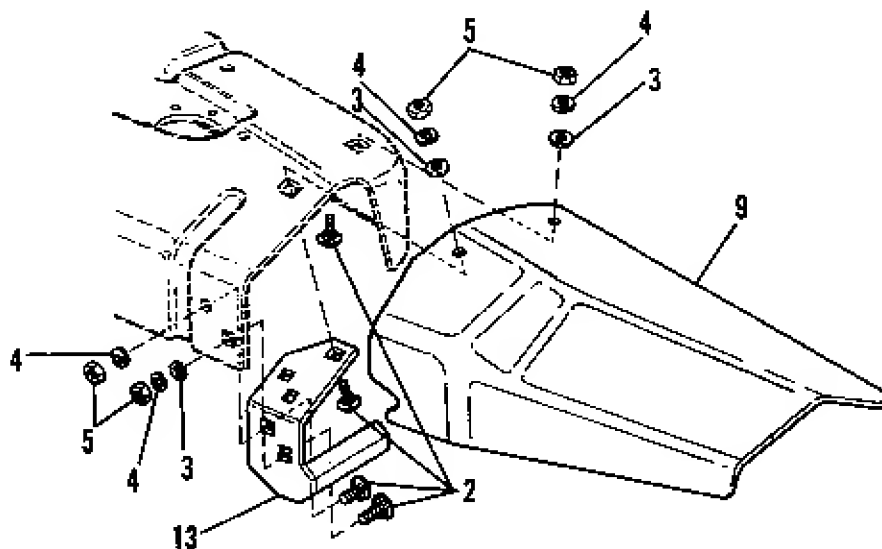
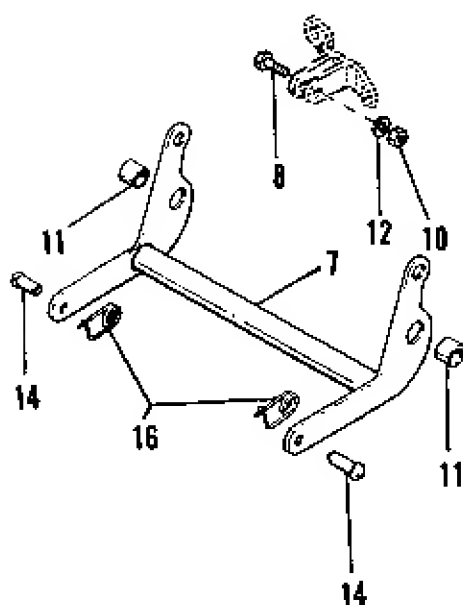
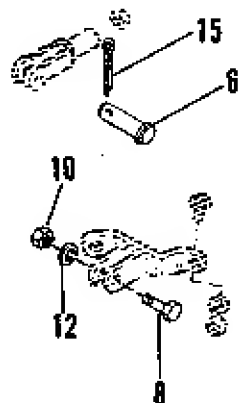
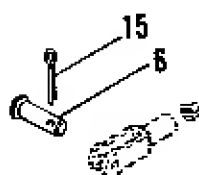
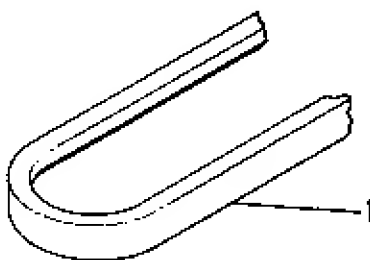
**Simplicity**

10/78

Ref. No.	Part No.	Qty.	Serial No.	Description
1	1656952	1	(00000)-( )	COVER, R.H.
2	1656951	1	(00000)-( )	COVER, L.H.
3	929000	14	(00000)-( )	SCREW, Hex, Tapsize, 1/4-20 x 3/8
4	164268	1	(00000)-( )	PULLEY, Idler
5	1657684	1	(00000)-( )	LEVER ASSY, Idler (w/Bushings)
6	917642	6	(00000)-( )	WASHER, Plain, 5/16
7	916965	2	(00000)-( )	LOCKWASHER, 3/8
8	916950	1	(00000)-( )	NUT, Hex, Full, 3/8-16
9	108418	1	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
10	171815	1	(00000)-( )	EYEBOLT
11	1656936	1	(00000)-( )	SPRING
12	1657044	1	(00000)-( )	BELT, V, Arbor Drive
13	916951	2	(00000)-( )	NUT, Hex, Full, 1/2-13
14	172015	1	(00000)-( )	ROCKER ARM ASSY
15	1657682	1	(00000)-( )	BUSHING
16	1657688	3	(00000)-( )	SHIELD, Grass
17	1655777	3	(00000)-( )	ADAPTOR, Blade
18	1657528	3	(00000)-( )	RING, Self Locking
19	1656927	3	(00000)-( )	WASHER, Spline
20	1656916	3	(00000)-( )	WASHER, Spline
21	920676	3	(00000)-( )	CAPSCREW, Hex Hd., 7/16-14 x 1
22	1656857	1	(00000)-( )	DECAL, Danger
23	174845	1	(00000)-( )	DECAL, Belt Installation
24	1656856	1	(00000)-( )	DECAL, Danger
25	8171073	1	(00000)-( )	RACE, Inner
26	1656962	1	(00000)-( )	LEVER ASSY, Idler
27	1658143	3	(00000)-( )	BLADE, 48" Mower
28	172473	1	(00000)-( )	BAIL ASSY
29	154304	2	(00000)-( )	YOKE
30	919262	2	(00000)-( )	NUT, Hex, Jam, 1/2-20
31	921176	2	(00000)-( )	CAPSCREW, Hex Hd., 1/2-13 x 1-1/4
32	918430	2	(00000)-( )	WASHER, Plain, 7/16
33	105051	2	(00000)-( )	SPACER
34	917421	1	(00000)-( )	NUT, Hex, Jam, 3/8-16
35	916966	2	(00000)-( )	LOCKWASHER, 1/2
36	1664241	3	(00000)-( )	WASHER, Shim



Ref. No.	Part No.	Qty.	Serial No.	Description
1	925204	2	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1
2	108454	1	(00000)-( )	BRACKET & SHAFT ASSY
3	923347	4	(00000)-( )	BOLT, Carriage, 3/8-16 x 3/4
4	920582	2	(00000)-( )	BOLT, Carriage, 5/16-18 x 3/4
5	916985	4	(00000)-( )	LOCKWASHER, 3/8
6	916950	8	(00000)-( )	NUT, Hex, Full, 3/8-16
7	1657891	1	(00000)-( )	BAR, Roller
8	1657892	1	(00000)-( )	SHAFT ASSY, Roller
9	172047	1	(00000)-( )	BRACKET, Roller, R.H.
10	917378	6	(00000)-( )	WASHER, Plain, 3/8
11	923428	2	(00000)-( )	NUT, Hex, Full Lock, 3/8-16
12	907731	2	(00000)-( )	CAPSCREW, Hex Hd., 3/8-16 x 1
13	108431	2	(00000)-( )	ROLLER ASSY
14	108419	14	(00000)-( )	BUSHING
15	108432	5	(00000)-( )	ROLLER ASSY
16	924940	2	(00000)-( )	WASHER, Plain, 5/16
17	922000	2	(00000)-( )	PIN, Cotter, 3/32 x 5/8
18	917372	2	(00000)-( )	NUT, Hex, Full, 5/16-18
19	919387	8	(00000)-( )	WASHER, Plain, 5/8
20	918458	7	(00000)-( )	PIN, Cotter, 3/16 x 1
21	108241	2	(00000)-( )	SOCKET ASSY
22	917421	2	(00000)-( )	NUT, Hex, Jam, 3/8-16
23	1650394	2	(00000)-( )	HANDLE, Adjusting
24	1651820	2	(00000)-( )	GRIP
25	108360	2	(00000)-( )	SPRING
26	917356	2	(00000)-( )	LOCKWASHER, 5/16
27	172046	1	(00000)-( )	BRACKET, Roller, L.H.
28	108512	2	(00000)-( )	PIVOT



NOTE: USE STANDARD HARDWARE  
TORQUE SPEC. NO. 173209 UNLESS  
OTHERWISE NOTED.

Ref. No.	Part No.	Qty.	Serial No.	Description
1	163011	1	(00000)-( )	BELT, V, PTO to Mower
2	922109	4	(00000)-( )	BOLT, Carriage, 3/8-16 x 1-1/4
3	924356	3	(00000)-( )	WASHER, Special
4	916965	4	(00000)-( )	LOCKWASHER, 3/8
5	916950	4	(00000)-( )	NUT, Hex, Full, 3/8-16
6	154305	2	(00000)-( )	PIN, Yoke
7	172468	1	(00000)-( )	ROCKER ARM ASSY
8	921176	2	(00000)-( )	CAPSCREW, Hex Hd., 1/2-13 x 1-1/4
9	1651184	1	(00000)-( )	DEFLECTOR
10	916951	2	(00000)-( )	NUT, Hex, Full, 1/2-13
11	105051	2	(00000)-( )	SPACER
12	916966	2	(00000)-( )	LOCKWASHER, 1/2
13	174127	1	(00000)-( )	GUARD ASSY, Stone
14	118053	2	(00000)-( )	PIN
15	918452	2	(00000)-( )	PIN, Cotter, 1/8 x 1
16	176012	2	(00000)-( )	PIN, Clip












# TORQUE SPECIFICATIONS FOR STANDARD MACHINE HARDWARE

TOLERANCE  $\pm 10\%$

SIZE	SAE GRADE #2 		SAE GRADE #5 		SAE GRADE #8 	
8-32	19	In. Lbs.	30	In. Lbs.	41	In. Lbs.
8-36	20	"	31	"	43	"
10-24	27	"	43	"	60	"
10-32	31	"	49	"	68	"
1/4-20	66	"	8	Ft. Lbs	12	Ft. Lbs.
1/4-28	76	"	10	"	14	"
5/16-18	11	Ft. Lbs	17	"	25	"
5/16-24	12	"	19	"	25	"
3/8-16	20	"	30	"	45	"
3/8-24	23	"	35	"	50	"
7/16-14	30	"	50	"	70	"
7/16-20	35	"	55	"	80	"
1/2-13	50	"	75	"	110	"
1/2-20	55	"	90	"	120	"
9/16-20	65	"	110	"	150	"
9/16-18	75	"	120	"	170	"
5/8-11	90	"	150	"	220	"
5/8-18	100	"	180	"	240	"
3/4-10	160	"	260	"	386	"
3/4-16	180	"	300	"	420	"
7/8-9	140	"	400	"	600	"
7/8-14	155	"	440	"	660	"
1-8	220	"	580	"	900	"
1-12	240	"	640	"	1,000	"

## NOTES:

- These torque values are to be used for all Simplipity hardware excluding: locknuts, self-tapping screws, thread forming screws, and sheet metal screws.
- Unless otherwise noted on assembly drawings all torque values must meet this specification.

## BOLT HEAD MARKING

S.A.E. GRADE:

2 

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